

# LECTRODEX

## 1956 ANNUAL

Published by  
RADIO MAGAZINES, INC.



# LECTRODEX

*formerly*

## RADIOFILE

Vol. 11. No. 6 November - December, 1956

Published bi-monthly by Radio Magazines, Inc., Henry A. Schober, President; C. G. McProud, Secretary. Executive and Editorial offices, 204 Front Street, Mineola, N. Y. Address all mail and communications to P.O. Box 629, Mineola, N.Y. Printed in U.S.A. at Mineola, N.Y. All rights reserved. Entire contents copyright 1956 by Radio Magazines, Inc.

SUBSCRIPTION RATES: U.S. and Possessions, \$3.00 for six issues, \$5.50 for twelve issues. All other countries, \$3.50 yearly. ANNUALS (containing all indexes for the calendar year) for 1947 through 1955, 50c each.

Betty McProud ..... Editor  
Henry A. Schober ..... Business Manager  
Edgar E. Newman ..... Circulation Director  
C. G. McProud ..... Publisher

### THE MAGAZINE INDEX

All material of permanent value in the periodicals listed is indexed, by subject, not by title. Each bi-monthly index is cumulative, listing all material of the current year, so that only the latest issue need be consulted. The year-end ANNUAL is retained for permanent reference.

The italic notation following each item indicates publication, month, and page, followed by a letter which gives an indication of the general type of article. In those magazines in which schematics or radio and television circuits appear as a special section or as fold-out pages, there is no page number given, but the identifying letter "s" indicates that the reference is a schematic in such a section or group of pages.

### ARTICLE CLASSIFICATIONS

The letter following the page number of each listing indicates the classification of the article as follows:

Theory, design data ..... *t*  
Construction, modification ..... *c*  
Description, general discussion ..... *g*  
Charts, nomograms, lists, etc. .... *d*  
Schematics for service information ..... *s*



### PERIODICALS INDEXED

Audio ..... AE  
Audiocraft ..... Act  
CQ ..... CQ  
Electrical Communication ..... EC  
Electronics ..... EI  
High Fidelity ..... HF  
Hi-Fi Music at Home ..... MH  
Journal Audio Eng. Soc. .... JAE  
Journal SMPTE ..... MP  
Sams' Photofact Reporter ..... PF  
Popular Electronics ..... PE  
Proceedings of the I.R.E. .... IRE  
QST ..... QST  
Radio-Electronics ..... RE  
Radio & Television News ..... RN  
RCA Review ..... RCA  
Service ..... Sv  
Service Dealer and Electronic Servicing ..... SD  
Tape Recording ..... TR  
Technician ..... Tc  
Tele-Tech ..... TT  
Trans. Prof. Gp. Audio ..... pgA  
Wireless World ..... WW



# LECTRODEX

## THE MAGAZINE INDEX

NOVEMBER - DECEMBER, 1956

### A

- Abbreviations ..... *RE* Nov 81*g* Dec 109*g*  
 Accelerometer, r.-f. oscillator in  
     ..... *EL* Aug 151*g*  
 Aeronautical radio  
     developments ..... *WW* Oct 462*g*  
 AGC Circuits  
     Color TV Receivers..... *SD* Nov 20*g*  
     Service problems..... *SD* Nov 16*g*  
 AGC systems, analysis of..... *Sv* Aug 37*g*  
 Air conditioning  
     servicing ..... *Tc* Jul 26*g* Aug 24*g*  
 Air Traffic Control  
     Storage, Long time, High brightness  
     radar projector ..... *EL* Dec 172*t*  
 Aircraft electronic aids..... *RN* Dec 37*g*  
 Alignment  
     Accessories, hints ..... *PF* Nov 50*g*  
 Alternating current, fundamentals  
     ..... *Act* Jul 30*g*  
 Amateur exams, how to pass *CQ* Jan 80*g*  
 Amplifiers  
     audio  
         broadcast-remote, transistor  
         ..... *EL* Jan 122*g*  
     Conference ..... *AE* Nov 46*g*  
     Frequency response  
         errors ..... *Tc* Dec 28*g*  
         phase inverters ..... *Act* May 21*t*  
         power stage ..... *Act* Apr 25*t*  
         push-pull power stages *Act* Jul 19*t*  
     Sonotone HFA-100..... *RN* Dec 58*g*  
     3000 watts..... *EL* Nov 162*g*  
     Upside down..... *RE* Nov 54*c*  
     designing your own  
         feedback amplifiers..... *Act* Jul 19*t*  
             ..... *Sept* 28*g*  
         push-pull power  
         stages ..... *Act* Oct 27*g*  
     distortion in ..... *RN* *Sept* 55*g*  
     distortion measurement *TT* Jan 65*d*  
     dual-channel ..... *AE* Jan 13*c*  
     Dynaknit Mark II..... *Act* Apr 19*g*  
     Eico, 20-W kit ..... *RN* Jul 64*g*  
     feedback ..... *PF* Jul 23*g*  
     laboratory  
         "Golden Ear" *RE* Aug 41*c* *Sept* 56*c*  
     long-tailed pair ..... *WW* June 283*c*  
         long-tailed cascode pair *RE* Oct 40*c*  
     portable ..... *RN* Oct 63*g*  
     power ..... *RE* May 59*g*  
     preamp equalization,  
         hum & noise ..... *SD* *Sept* 4*g*  
     preamplifiers &  
         transistorized ..... *RE* *Sept* 59*c*  
     Precision switching *IRE* Nov 1613*t*  
 Feedback stabilization ..... *RE* Dec 34*t*  
 4X250B Linear ..... *QST* Nov 26*c*  
     transistorized ..... *RN* Jul 43*c*  
     transistorized phono ..... *EL* *Sept* 175*g*  
     voice coil feedback ..... *RE* Oct 48*g*  
 Impedance ..... *AE* Nov 22*d*  
 low-noise, design ..... *EL* June 154*t*  
     Mullard 520 ..... *RN* Apr 66*c*  
 preamp ..... *RN* June 70*c*  
     simple ..... *RN* Aug 66*c*  
     preamplifiers ..... *AE* March 36*g*  
     preamplifier-control units,  
         requirements ..... *RN* Jan 47*t*  
 Heath WA-P2 preamp  
     control unit ..... *Act* June 26*g*  
     tape-recorder,  
         ..... *RN* Apr 46*c*, *WW* Mar 120*c*  
     transistor, design..... *AE* Apr 31*t*  
         5-watt ..... *RN* Apr 53*c*  
         Class B ..... *RE* May 55*c*  
         high gain ..... *RE* June 30*c*  
         kit ..... *RN* Jan 87*g*  
         "hushed"..... *TT* Jan 70*t*, Feb 22*t*  
     tubeless ..... *PE* Feb 92*c*  
     Williamson,  
         modernization ..... *Act* Jan 16*c*  
     50-watt ..... *RN* June 61*o*



- 5881 ..... *RN Apr 90c*  
d.c. decade ..... *TT Apr 90g*  
unity gain ..... *TT Apr 84g*  
grounded-grid, input  
impedances ..... *CQ Jan 23g*  
guitar ..... *PE Jan 47c*  
i. f., installation and repair *Sv Jan 34t*  
selective bandpass ..... *WW Sept 435g*  
linear wide-band ..... *WW Sept 446g*  
Output-transformerless ..... *JAE Apr 72g*  
parasitic oscillations, causes  
and cures ..... *Sv Apr 46g*  
power ..... *AE Apr 49g*  
Push-pull  
Distortion ..... *RN Nov 142g*  
Transistor Servo ..... *El Dec 155g*  
regenerative, analysis ..... *IRE Apr 533t*  
remote, transistor ..... *TT Aug 74c*  
r.f., high-power ..... *QST June 42c*  
transistor ..... *WW Oct 494t*  
wide-band linear ..... *WW Aug 374g*  
source resistance, control of  
*JAE Jan 9g*  
speech, compression  
and clipping ..... *QST Sept 34c*  
limiting ..... *CQ Apr 31c*  
SSB, design of high-power  
*TT June 108t*  
Tape recording ..... *RN Dec 71c*  
telephone repeaters, slope and  
level correction ..... *El Jul 168g*  
Tetrode transistor 5-40mc. *TT Nov 62t*  
transistor, special purpose *RN Oct 48c*  
travelling-wave, large-signal  
*IRE Feb 200t*  
voltage ..... *Act Mar 20t*  
Transistor ..... *RN Nov 44g*  
D. C. .... *WW Nov 529g*  
RF Stage ..... *RE Nov 104c*  
RF ..... *WW Nov 544t*  
Stabilizing ..... *AE Dec 47t*  
Video AGC ..... *RCA Dec 558g*  
Video  
Shunt regulation ..... *El Nov 166g*  
Transistor ..... *IRE Nov 1561t*  
Anamorphic Systems  
developments in ..... *MP Mar 151g*  
mirror ..... *MP Mar 146t*  
Anechoic chambers  
electromagnetic  
fields in ..... *RCA Sept 393t*  
Antennas  
aluminum-mesh reflectors *TT Mar 72t*  
arrays, calculating  
efficiency ..... *TT June 102t*  
auto ..... *SD June 34g*  
Automatic tuner ..... *QST Dec 15c*  
Band I and Band III,  
crossover network ..... *WW June 293c*  
base mounts ..... *PF May 29g*  
beam, calculating gain ..... *CQ May 30t*  
Color TV reception ..... *PF Nov 16g*  
couplers, 50 and 144 mc. *QST July 22c*  
orientation ..... *Tc June 38g*  
multiband operation ..... *QST July 42c*  
dipole, folded ..... *CQ June 58g*  
dipole, 40-meter ..... *CQ Apr 90c*  
Dipole, single ..... *SD Nov 38g*  
15 meter beam and tower *PE Nov 78c*  
40 meter groundplane on 80 *CQ Nov 32c*  
40 meter phased array ..... *QST Dec 20c*  
"Drooping Doublet" ..... *CQ Feb 40c*  
dual quad, 15 and 10  
meters ..... *QST May 26c*  
end-loaded, shortbeam ..... *CQ Aug 23c*  
erecting towers ..... *QST Sept 27g*  
field strength meter ..... *El Feb 130t*  
FM ..... *Act Jul 20g*  
folded ground-plane, 10-Meter  
*CQ Aug 19c*  
ground, matching to ..... *QST Oct 20c*  
ground-plane, 14-Mc ..... *QST June 26c*  
75 meters ..... *CQ June 31c*  
helical, ground-air ..... *El Mar 161g*  
helicopter, design of ..... *TT Aug 84t*  
importance of  
grounding ..... *RN Sept 102g*  
installation, drilling masonry  
*PF Jan 20c*  
interference rejecting ..... *PF Jan 15g*  
JFD NCB Colortenna ..... *SD Nov 22g*  
lazy quad ..... *CQ Jul 38c*  
mobile, remote tuning ..... *CQ May 31c*  
multiband, trap  
construction for ..... *QST Oct 18c*  
multiple V-beams ..... *QST Aug 28c*  
Off-center-fed design ..... *RN Dec 44t*  
Open grid parabolic ..... *TT Nov 60g*  
Polarization effects, VHF  
mobile ..... *QST Dec 11g*  
portable beam, 50 and 144 mc  
*QST Aug 35c*  
Portable loop ..... *RE Dec 88g*  
r.f. phase-sensing unit ..... *CQ Feb 56c*  
rotary beam ..... *CQ Mar 13c*  
rotator, Radiart ..... *Tc Jun 5*  
Station integration ..... *CQ Dec 32g*  
squashed monopole ..... *RN Sept 46g*



## television

- indoor, profit in selling *SD Feb 34g*
- multiple systems *Sv Oct 32g*
- new connecting network *PF Aug 27g*
- rotators *RN Aug 39g*
- "Showman," indoor *RN Sept 54g*
- TACO topline *SD Oct 18g*
- tapping transmission lines *SD Oct 24g*
- traveling wave *SD Oct 8g*
- traveling wave design *Tc Sept 50g*
- variable-inductance *Sv Sept 32g*
- tower raising *CQ Aug 64c*
- tuner for SWL *PE June 79c*
- wide-band *WW June 288g*
- 1956 models *SD Apr 15g*
- towers, maintenance *PF Aug 14c*
- TV Biconicals, 10 m *QST Nov 32g*
- UHF-TV, omniguide *RCA Mar 13g*
- Yagi arrays, multielement beams *QST Aug 11t, Sept 23t*
- 2-meter, five element *CQ Jul 36c*
- 6 meters, TV antennas for *CQ June 19c*
- 10-Meter DX *QST June 30c*
- 10-15-20 meter *RN Jul 39g*
- 10-15-20 meter tri-band quad *QST Sept 32c*
- 144-Mc, 28-element beam *QST Oct 15c*
- Appliance servicing, equipment required *Sv Aug 42g*
- Automation future *PE Jul 41g*
- hobber, gear gauge controls *El Jul 140g*
- machine-tool systems *WW Aug 382g*
- Attenuators, care of *AE May 44g*
- Audio Console design notes *JAE Apr 65g*
- Time delay suppressor *AE Nov 24c*
- Audio conversions *RE Nov 60c*
- Audio-Visual System, for churches *JAE Oct ('55) 206g*
- Automation Electronics *SD Nov 10g*

## B

### Batteries

- Dry cell reactivation *RE Dec 49g*
- Batteries, wafer cell construction *WW Jul 341g*
- Battery rejuvenator, how to build *PE Oct 47c*
- Beam modulation, spurious *IRE Jan 61t*

## Bevatron

- frequency measurement system *El May 182t*
- pulse-timing *El June 160t*
- Biamplication *HF Nov 59g*
- Biasing large amplifiers *El Jan 141g*
- Binaural, *see Stereo*
- Bistable circuit 1-triode *El Mar 230t*
- Break-in operation, cathode-follower TR switch *QST May 41c*
- Briggs Concert, recap *MH May-June 42g*
- US-1956 *AE Nov 54g*
- Broadcasting audio console for TV use *AE Sept 24g*
- Colonial *WW Nov 551g*
- future in Europe *WW Jan 18g*
- in U.S.S.R. *WW Aug 379g*
- reducing off-air time *El Sept 156g*
- sound effects console *AE Sept 26g*
- Buyers' directory *Tc May 45g*
- synchronization checking *PE Aug 100c*

## C

- Cabinets, touch-up methods *PF Sept 24g*
- Cameras, shutter tester *El Feb 162g*
- lightweight Vistavision *MP May 279g*
- Capacitance, fundamentals *Act May 36t*
- AC circuits *Act Nov 28t*
- tantalum electrolytic *IRE July 872g*
- Capacitors fundamentals *Tc Sept 39g*
- new types *PF Sept 16g*
- leakage in transistor-circuit *Sv Oct 38g*
- Capacitor, gas-electric electrically variable *El Jan 158g*
- Capacitor, tuned *TT May 68g*
- Cathode followers *PF Aug 17g*
- Cathode-ray tube tester production line *TT Apr 76g*
- Cathode traps, design chart for *El Jul 174d*
- CD observer post, equipment for *PE Aug 47g*
- Chassis, universal experimental *RE Sept 79c*
- Circuit Digest, how to file *Tc May 36g*
- Circuit production, automatic *WW Jan. 23g*
- cascode, design of *TT Aug 71t*
- triple-tuned, design chart for *El Aug 186d*
- Circuits Complete index *Tc Nov 60d*



- Low level chopper ..... *TT Dec 42t*  
Packaged electronics ..... *Sv Dec 18g*  
series and parallel ..... *Act Feb 33t*  
Transistor super-regen. .... *WW Dec 606g*  
Circulators, network  
properties ..... *IRE Oct 1394t*  
Cloud chambers ..... *PE Sept 79g*  
Code-practice set,  
transistorized ..... *QST May 24c*  
Coils, r.f., design ..... *RN Aug 56g*  
Code reception ..... *PE Jul 83c*  
Coin tosser, electronic ..... *PE Jan 55c*  
Color film  
negative timing ..... *MP Apr 216t*  
printing exposure  
determination ..... *MP Apr 205t*  
Color perception,  
projected films ..... *MP Sept 455t*  
Commercial killer,  
Cryotron ..... *IRE Apr 482t*  
speech-music  
discriminator ..... *RE Sept 62c*  
transistorized ..... *PE Feb 43c*  
transistorized amplifiers  
*IRE Jan 43t, TT Apr 80g*  
Communication networks,  
topological properties ..... *IRE Jul 927t*  
multipath simulator ..... *El Jul 171t*  
analog multiplier, triangular-  
wave oscillator ..... *El Aug 182g*  
neon tubes in ..... *El Jul 162g*  
ferroresonant circuits ..... *WW Jul 324t*  
magnetic core memory  
circuits ..... *IRE Feb 154t*  
memory, functioning ..... *PE Aug 31g*  
10-meter ..... *CQ Aug 50c*  
50-mc ..... *CQ Jul 72c*  
binary, low-power ..... *TT Jul 48g*  
Communications  
person-to-person ..... *RN June 35g*  
Community TV  
Closed circuit applications ..... *Sv Dec 28g*  
Components, high-  
temperature ..... *WW Oct 510g*  
Computers  
amplifiers  
chopper stabilization ..... *El Sept 182g*  
analog-digital data converter  
*El Jan 152t*  
analog, simplified ..... *El June 122g*  
character reader ..... *El Feb 132g*  
code disc fabrication ..... *El June 146g*  
digital  
transistor ..... *WW May 210g*  
transistor circuits for ..... *El May 160t*  
ferrite-core memory ..... *El Feb 158g*  
high-speed printer for ..... *El Sept 166g*  
IBM 705 ..... *RN Nov 118g*  
input/output devices,  
trends in ..... *El Sept 142g*  
Locating open heaters ..... *TT Dec 46g*  
measuring temperature  
coefficients ..... *TT Apr 70g*  
Number systems ..... *TT Dec 32g*  
SAGE system ..... *RN Sept 43g*  
speeding inventory ..... *PE May 41g*  
Conelrad  
alarm circuits ..... *QST June 17c*  
Audible/visible alarm ..... *QST Nov 21c*  
Home receiver alarm ..... *RN Nov 60c*  
Radio-alert monitor ..... *Sv Dec 20g*  
Simple alarm, home or  
mobile ..... *QST Dec 40c*  
tubeless monitor ..... *CQ Mar 16c*  
Connectors  
Coaxial ..... *CQ Nov 54g*  
Console, amateur ..... *CQ Feb 32c*  
Converters  
aerial filter for ..... *WW May 221c*  
Band III ..... *WW Mar 134c*  
Low noise 108/144mc ..... *QST Nov 11c*  
mobile, 12-Volt ..... *QST Sept 16c*  
transistorized ..... *PE Sept 37g*  
Tapetone XC-144 ..... *CQ Dec 44g*  
shortwave ..... *PE Apr 70c*  
single sideband ..... *El Mar 214g*  
2-meter ..... *CQ Mar 18c*  
2-meter ..... *WW Feb 60c*  
2 meter-BN-IFF ..... *CQ Nov 46c*  
144-mc. .... *CQ Apr 42c*  
220-megacycle ..... *RN Sept 51c*  
Converter-receiver  
inductuner, 50-240mc ..... *RE June 84g*  
C R tubes  
deflection, post-acceleration  
and electrostatic ..... *IRE May 659t*  
Counters  
surface-barrier transistor ..... *El Mar 174g*  
CW bandwidth requirements  
*TT Mar 84t*  
Crystals,  
microwave, broadband ..... *TT Mar 68g*  
AT-Type resonators ..... *IRE Nov 1600t*  
Selection, application ..... *TT Nov 56g*  
Cuing  
Motion picture scene  
change ..... *MP Nov 594g*



## D

- Decibels, simplified ..... *Act Apr 33g*  
 Demagnetizer and magnetizer ..... *PE Aug 57c*  
 Design features  
   RCA portable TV ..... *PF Aug 21g*  
 Detectors  
   product ..... *QST May 20t*  
 Dielectrics  
   high temperature  
     bombarding ..... *El May 146g*  
 Diode networks ..... *TT Feb 66t*  
 Diodes, germanium junction,  
   for frequency conversion  
     and computation ..... *IRE Sept 1183t*  
     in TV receivers ..... *RN Jul 98g*  
     selenium, in TV design ..... *TT Aug 81g*  
     variable-capacitance ..... *RCA Mar 68t*  
     with portable radio ..... *PE Jul 53g*  
 Direction finders, UHF  
   design of ..... *TT June 90g*  
 Disc-reproducer measurements  
   Locked concentric grooved  
     disc ..... *JAE Apr 76g*  
 Distortion, *see also Amplifiers*  
   analyzer ..... *RN Feb 59c*  
   causes and effects ..... *Act Mar 24g*  
   In FM Tuners ..... *AE Dec 30t*  
   relationships ..... *WW Apr 188t*  
 Display tubes,  
   lattice videtron ..... *El Aug 154g*  
 DX forecasting, do your own *CQ Aug 67g*  
   radio tracking ..... *QST Jul 38g*  
   packaging ..... *TT Jun 84g, July 58g*

## E

- Earth satellites,  
   symposium ..... *IRE June 741g*  
 Eccentric-line impedance ..... *El Sept 190d*  
 Electrets, facts about ..... *PE Aug 85g*  
 Electronic equipment  
   packaging ..... *TT June 84g*  
   Quality control ..... *IRE Nov 1521g*  
 Electronic lock ..... *PE Sept 61c*  
 Electronics, Air Force ..... *RE June 58g*  
 Electronic music ..... *IRE Apr 457g*  
 Electronic scales ..... *PE Sept 38g*  
 Equalization, reasons for ..... *Act June 23t*  
   ..... *PE Aug 97g*  
   general information ..... *PF Aug 13g*  
   techniques ..... *PE Aug 59c*  
 Etched circuits  
   fabrication ..... *CQ Apr 34c*  
   for the amateur (part I) ..... *CQ Feb 15c*  
   layout design ..... *CQ Mar 38c*

- making ..... *RE Jan 139c*  
 making your own ..... *PE Sept 53c*  
 Measurements ..... *PF Dec 23g*  
 pre-tinning ..... *El Jan 234g*  
 removal from chassis ..... *PF Oct 20g*  
 repairing ..... *RN June 50g*  
 Repairing ..... *PF Nov 36c*  
 soldering ..... *SD Feb 23g*  
 Use of kits ..... *CQ Nov 22g*

## F

- Facsimile  
   IRE Standards  
     definitions of terms ..... *IRE June 776d*  
     transmitter, continuous  
       scanning ..... *TT Jan 62g*  
 Fan, ventilating, control unit *RE May 86c*  
 Feedback  
   interaction concept ..... *AE Oct 38t*  
     (Part II) ..... *AE Nov 32t*  
   multiple loops ..... *WW Feb 91g*  
   Nyquist diagram ..... *WW Jan 43t*  
   simplified ..... *AE Apr 29t*  
   signal-flow graphs,  
     properties ..... *IRE Jul 920t*  
 Fence alarm, balanced-  
   capacitance ..... *El Apr 150g*  
 Fencing scorer ..... *RE Aug 50g*  
 Ferrites  
   below microwave frequencies,  
     properties  
       and application ..... *IRE Oct 1234t*  
     bire fringence of  
       circular waveguide ..... *IRE Oct 1414t*  
   broadband applications ..... *TT Feb 62t*  
   cobalt-substituted Mn ..... *IRE Oct 1343t*  
   conductivity ..... *IRE Oct 1294t*  
   crystal chemistry ..... *IRE Oct 1303t*  
   dielectric properties ..... *IRE Oct 1294t*  
   directional couplers ..... *IRE Oct 1439t*  
   guided-wave propagation ..... *IRE Oct 1403t*  
   inductor applications ..... *IRE Jan 4t*  
   isolators ..... *IRE Oct 1421t*  
   magnetic resonance ..... *IRE Oct 1259t*  
   methods of preparation ..... *IRE Oct 1303t*  
   microwave frequency &  
     loss characteristics ..... *IRE Oct 1368t*  
     circuit elements ..... *IRE Oct 1386g*  
     resonance relations ..... *IRE Oct 1284t*  
     nonlinear behavior ..... *IRE Oct 1270t*  
   permeability, from waveguide  
     measurements ..... *IRE Oct 1318t*  
   phase shifter ..... *IRE Oct 1456t*  
   radiation from apertures ..... *IRE Oct 1463t*  
   resonance loss ..... *IRE Oct 1323t*



- rods, spheres, and disks,  
permeabilities \_\_\_\_\_ *IRE Oct 1311t*  
spheres, measurement  
of properties \_\_\_\_\_ *IRE June 790t*  
tunable filter for S Band *IRE Oct 1460t*  
tunable microwave cavities  
and filter \_\_\_\_\_ *IRE Oct 1449t*  
tuned resonant cavities *IRE Oct 1446t*  
**Ferro- and Ferri-Magnetism**  
fundamental theory \_\_\_\_\_ *IRE Oct 1248t*  
**Ferromagnetic elements**  
bistable \_\_\_\_\_ *TT Apr 74g*  
**Film**  
Color developing  
ARRI Installation \_\_\_\_\_ *MP Nov 599g*  
color internegative \_\_\_\_\_ *MP Aug 426g*  
color printers,  
calibration \_\_\_\_\_ *MP Sept 485t*  
processing machines  
bearings for \_\_\_\_\_ *MP June 328g*  
plastics in \_\_\_\_\_ *MP June 330g*  
Reversal color print  
silver soundtracks \_\_\_\_\_ *MP Nov 591g*  
16mm, 8mm fields  
technical opportunities *MP Nov 586g*  
splicing of \_\_\_\_\_ *MP June 334g*  
test, registration and  
steadiness \_\_\_\_\_ *MP Aug 436g*  
**Film printing**  
color techniques \_\_\_\_\_ *MP Jul 375g*  
**Film processing, role of the**  
chemist \_\_\_\_\_ *MP Mar 133g*  
fixing baths  
increasing washing rate *MP Jul 378g*  
ion-exchange recovery *MP Sept 478g*  
recovery of silver from *MP Aug 429g*  
**Film projection**  
16 mm, with large reels *MP June 320g*  
**Film standards**  
8 mm, magnetic coating *MP June 339d*  
16 mm  
200-mil magnetic \_\_\_\_\_ *MP June 340d*  
2-edge perforation \_\_\_\_\_ *MP June 338d*  
magnetic coating,  
2 edges \_\_\_\_\_ *MP June 340d*  
printer aperture \_\_\_\_\_ *MP June 339d*  
**Film striping machine,**  
Pyrat \_\_\_\_\_ *MP May 282g*  
high pass, for 50-mc \_\_\_\_\_ *QST Aug 31g*  
**Filters**  
amateur use \_\_\_\_\_ *QST Aug 25c*  
antenna circuit \_\_\_\_\_ *QST May 31t*  
Bandpass and rejection *RN Nov 148c*  
directional channel-  
separation \_\_\_\_\_ *IRE Aug 1018t*  
key click \_\_\_\_\_ *CQ May 33c*  
low-pass  
adjustable for receiver or  
speech amplifier \_\_\_\_\_ *QST Oct 30c*  
design \_\_\_\_\_ *El Mar 200d*  
RC, approximation  
problem \_\_\_\_\_ *IRE July 914t*  
80-meter \_\_\_\_\_ *QST July 32c*  
waveguide, Polarguide \_\_\_\_\_ *IRE Feb 210t*  
Low frequency  
discriminator \_\_\_\_\_ *TT Nov 54t*  
Fire alarm, thermistor \_\_\_\_\_ *PE Mar 49c*  
Flasher relaxation,  
oscillator \_\_\_\_\_ *PE Sept 85c*  
Flight testing,  
recorder amplifier \_\_\_\_\_ *El Aug 158g*  
Fishways  
Use of electronics in \_\_\_\_\_ *PE Nov 60g*  
Flutter, weighting network  
for measurements \_\_\_\_\_ *IRE Sept-Oct 124t*  
**FM**  
antennas for \_\_\_\_\_ *MH Jul-Aug 42g*  
capture ratio \_\_\_\_\_ *WW Oct 497g*  
Distortion \_\_\_\_\_ *IRE Nov 1608t*  
low-distortion discriminator  
\_\_\_\_\_ *WW Apr 158t*  
Multi-path distortion \_\_\_\_\_ *WW Dec 578t*  
multiplex, 3-channel \_\_\_\_\_ *El June 130t*  
tuning meter for \_\_\_\_\_ *WW July 340c*  
**FM transmitters**  
transistor \_\_\_\_\_ *El Apr 220g*  
**Free-power apparatus,**  
design of \_\_\_\_\_ *TT Aug 66g*  
**Frequencies**  
Audio bursts, staircase  
decades \_\_\_\_\_ *TT Dec 34g*  
Control, 300-1200mc region  
\_\_\_\_\_ *IRE Nov 1531g*  
**Frequency division**  
cascaded binaries \_\_\_\_\_ *TT Mar 92g*  
**Frequency meters**  
microwave \_\_\_\_\_ *IRE Feb 175g*  
transistor \_\_\_\_\_ *RN Jan 68c*  
**Frequency shift keying**  
Single sideband, use of *IRE Dec 1692g*  
timing indicator \_\_\_\_\_ *CQ May 46c*  
**Frequency standard**  
amateur \_\_\_\_\_ *RN Jan 64c*  
audio, tuning fork \_\_\_\_\_ *CQ May 27c*  
inexpensive 500 kc \_\_\_\_\_ *PE Feb 51c*  
**Function generators** \_\_\_\_\_ *TT Mar 88t*  
**Fuses** \_\_\_\_\_ *SD July 42g*  
use of \_\_\_\_\_ *TC Aug 34g*



Gardening helps \_\_\_\_\_ *PE May 57g*  
Garage door operators  
installing \_\_\_\_\_ *Tc Apr 40g*  
installation \_\_\_\_\_ *Sv Sept 10g*  
Geiger counter  
amplifiers \_\_\_\_\_ *PE Apr 51c*  
power supply, improved *RE Sept 106c*  
transistorized, simple \_\_\_\_\_ *PE June 90c*  
Generators  
A-C \_\_\_\_\_ *CQ June 20g*  
audio, Heathkit AG-9 \_\_\_\_\_ *RE May 79g*  
gasoline driven  
voltage regulation \_\_\_\_\_ *CQ May 38c*  
Gonset communicator  
improving selectivity \_\_\_\_\_ *CQ Apr 48c*  
Graphic arts, flying-spot  
scanner for \_\_\_\_\_ *RCA Sept 313g*  
Grid dip meter,  
how to use \_\_\_\_\_ *PE Sept 49g*  
transistorized \_\_\_\_\_ *RE May 34c*

|                                |                     |
|--------------------------------|---------------------|
| Hardness testing, magnetometer |                     |
|                                | <i>El Apr 142t</i>  |
| Hearing                        |                     |
| effect of age                  | <i>WW Sept 439g</i> |
| threshold                      | <i>AE Mar 17t</i>   |
| Heat transfer                  |                     |
| industrial applications        | <i>IRE Aug 977t</i> |
| Hi-Fi system                   |                     |
| built-in                       | <i>Act Mar 16c</i>  |
| components                     |                     |
| how to match                   | <i>RN Sept 68g</i>  |
| component failures in          | <i>SD July 28g</i>  |
| equipment cabinets             | <i>RN Sept 48g</i>  |
| how to demonstrate             | <i>PE Oct 41g</i>   |
| inexpensive                    | <i>PE June 35c</i>  |
| professional for home          | <i>AE Apr 23g</i>   |
| testing                        | <i>PE Sept 83g</i>  |
| Hum                            |                     |
| elimination of                 | <i>PE Oct 72g</i>   |
| Reduction, design              | <i>AE Nov 38t</i>   |
| servicing                      | <i>Tc Jan 26g</i>   |
| Hygrometer, electronic         | <i>PE Oct 65c</i>   |

|                                    |                     |
|------------------------------------|---------------------|
| IGY                                |                     |
| electronics in .....               | <i>El Dec 138g</i>  |
| Image orthicon, care and           |                     |
| feeding of .....                   | <i>TT Apr 72g</i>   |
| Indicators                         |                     |
| Jet exhaust, transistorized .....  | <i>El Dec. 143c</i> |
| Inductance in A. C. Circuits ..... | <i>Act Oct 34g</i>  |
| Induction .....                    | <i>Act Apr 36</i>   |

**J**

Jazz, revived by hi-fi..... *PE Sept 45g*

Key  
Automatic, little monster... *QST Nov 25c*  
Kinescopes  
Projection type protection *RN Nov 136c*  
Klystrons  
amplifiers, C-band ..... *TT Aug 82g*  
magnetic tuning ..... *IRE Oct 1431t*  
8-mm oscillator ..... *IRE Sept 1155t*

## 7



crossover networks *RE* Jul 44t, Aug 44t  
 Design, future ..... *AE* Dec 19t  
 Diffaxial ..... *AE* June 20g  
     Acoustical Mfg. Co. .... *HF* Jun 44g  
     distortion in ..... *WW* Feb 54t  
     general ..... *HF* May 42g  
 difference in sound ..... *RN* Oct 37g  
 dual-cone ..... *RN* Aug 42g  
 electrostatic ..... *Act* Oct 4g  
     confusion about ..... *HF* Sept 39g  
     full-range ..... *WW* Oct 486g  
     how they work ..... *PE* Sept 89g  
 electrostatic tweeters  
     improved circuit for ..... *AE* Oct 36c  
 Electrostatic ..... *Sv* Dec 13t  
 enclosures ..... *AE* June 20g, Aug 22g  
     ..... *AE* Aug 15t Sept 34t  
     acousti-magic ..... *Act* Oct 22g  
     ARU ..... *PE* Oct 82c  
     bass-reflex ..... *RN* June 46g  
     Bass-Reflex Jr. .... *PE* Aug 71c  
     Ceramix horn ..... *RE* Apr 34c  
     Concrete ..... *AE* Dec 25c  
     corner baffle ..... *PE* May 48c  
     design ..... *WW* Jan 8t, Feb 75g  
     Distributed port ..... *RN* Nov 37g  
     E-V Centurion kit ..... *Act* Jul 16c  
     fact and theory ..... *PE* Jan 76g  
     "friction-loaded" ..... *AE* Jun 38g, Jul 26g  
     Hartley baffle ..... *RE* Feb 108c  
     hybrid types ..... *PE* May 86g  
     infinite baffle ..... *Act* Sept 22g  
     ported ..... *AE* Oct 23g  
     resonant enclosures ..... *Act* Oct 31g  
     role in reproduction ..... *RN* Oct 43g  
     semi circular horn ..... *AE* Oct 26c  
     Sherwood Forester ..... *Act* Sept 18g  
     octahedral ..... *PE* Apr 75c  
     sand-filled ..... *Act* Aug 22g  
     three-way ..... *AE* Mar 22c  
     University Classic ..... *Act* Feb 17c  
 feedback ..... *AE* May 28g  
 general ..... *Act* Aug 16g  
 Folded horn design ..... *AE* Dec 40t  
 Horns ..... *RN* Nov 51g  
 horns ..... *PE* Apr 78t  
 Horns and enclosures ..... *Act* Dec 24g  
 impedance measurement ..... *RE* Oct 46c  
 Impedance ..... *AE* Nov 22d  
 Isophase ..... *JAE* Apr 56g  
 Listening tests ..... *RN* Dec 40g  
 Loading ..... *RN* Nov 63t  
 mechanical and electrical  
     characteristics of ..... *AE* May 46t

miniature,  
     personal receivers ..... *RCA* Mar 57g  
 multi-channel types ..... *RN* Sept 72g  
 multiple-speaker switching ..... *Act* Feb 22c  
 selection of ..... *RN* June 55g  
     Semi-solid corner ..... *AE* Dec 39c  
 single-cone ..... *RN* Jul 59g  
 standards ..... *JAE* Oct ('55) 191g  
     "Buster" ..... *Act* May 28c  
     design ..... *Act* Jan 20g  
     impedances in ..... *Act* May 16g  
     stereo-monaural ..... *Act* Apr 28g  
     two-way ..... *PE* Jun 53g  
 woofer requirements ..... *AE* May 30t  
 Luminance, subjective black *MP* Aug 411t  
 Quality control, consumer  
     effect ..... *JAE* Apr 82g  
 Tweeter design ..... *JAE* July 105t

## M

Magnetism ..... *Act* Mar 38t  
 Magnetic amplifiers  
     transient-controlled ..... *El* Aug 176g  
     use in computers ..... *El* Jul 138t  
 Magnetic head  
     Megacycle range ..... *El* Nov 172g  
 Magnetic shift register,  
     correlator for ..... *El* Aug 172g  
     tester for lost pulses ..... *EL* Aug 164g  
 Magnetrons, air cooling of *TT* June 100g  
 Maintenance Manuals  
     important data in ..... *El* Sept 150g  
 Marine radio  
     business ..... *SD* May 8g, Jun 14g, Aug 4g,  
     ..... Oct 40g  
     Business ..... *SD* Nov 30g  
     Powerboat antennas ..... *SD* Dec 14g  
     installation and tuning ..... *RN* June 64g  
 Measurements  
     audio distortion ..... *RN* Aug 68g  
     flutter weighting network *MP* Aug 419g  
     gain, audio systems and  
         components, methods *IRE* May 668g  
     video  
         with transient  
         techniques ..... *IRE* May 638t  
 Wavemeter  
     Automatic calibration ..... *WW* Nov 533g  
 Megaphone, transistorized ..... *PE* Jul 31c  
 Metal locators ..... *PE* June 86g  
 Meters, field strength, audible *CQ* Jul 43c  
     EICO VTVM kit ..... *Act* Nov 24g  
 Metronome, transistorized ..... *PE* Apr 59c  
     low cost, stable ..... *RE* Nov 63c



## Microphones

- directional characteristics *PF Mar 25g*
- electrical loading *JAE Oct ('55) 194t*
- how to build *TR Feb 46c*
- low impedance, use of *TR June 32g*
- placement, stereophonic *AE Nov 43t*
- reflectors
  - recording *TR Apr 22g*
- Secondary calibration
  - free field technique *JAE July 110t*
- Uniaxial, bigradient *RCA Dec 522g*
- wireless, transistorized *RE June 36g*

## Microwave

- beyond-the-horizon *EC Jun 108g*
- diversity system *EC Jun 151g*
- configurations *EC Jun 161g*
- range of multichannel *EC Jun 168g*
- propagation, 3000-mc *EC Jun 117g*
- design chart *EC Jun 165d*
- design *El June 138t*
- detector *IRE Apr 503t*
- H-Guide *TT Nov 50t*
- high-speed phase shifter *EC Sept 224g*
- impedance measurement,
  - reflectometer *TT May 72g*
- nonreciprocal devices *IRE Oct 1345t*
- receiver, personal portable *El June 164t*
- swr measurement *IRE Aug 1024t*
- telephone use, design *TT Aug 88g*

## Mixers

- microwave, noise
  - cancellation *TT Mar 86t*

## Mobile radio

- high-band, installation *Sv May 28g*
- installation *CQ Aug 26c*
- installing equipment *Tc May 34g*
- Opportunities in *SD Dec 6g*
- test procedures *Tc Sept 52g*
- V.H.F. operation, reduced
  - channel spacing *WW Oct 481g*

## Mobile sound systems

- equipment installation *Sv June 38g*

## Modulators

- Class A2 Screen *CQ Apr 21c*
- Heathkit AT-1, for *QST Nov 36c*
- reference-shift *CQ June 36c*
- single-ended push-pull *QST Aug 40c*
- transistor
  - airborne recording *El June 166t*
  - vibrating capacitor *El June 158t*

## Modular radio

- Motorola HS-515 *PF Oct 44*

## Modulation monitor,

- with electron-ray *QST Aug 38c*

## Modulation,

- higher power without
  - spatter *QST Oct 27c*
  - pulse-time, 900-mc *EC June 143g*

## Multiplex, frequency-division,

- bandwidth *IRE Feb 189t*
- exciter for *El Aug 148g*

## Multiplexer

- 10-channel *TT May 80g*

## Multivibrator, series

- experiments with *RN Sept 65g*

## Music

- composing with electrons *HF Oct 64g*
- energy distribution *IRE Sept-Oct 120t*
- engineers in *IRE Sept-Oct 115g*

## Music room

- Design for college *AE Dec 28t*

## Musical engineering

- current status *IRE Sept-Oct 107g*

## Musical instruments

- banjo *PE Feb 61c*
- characteristics *HF Feb 61g*
- Conn electronic
  - organ *AE Sept 28g, Oct 48g*
  - organ reproduction *AE Apr 26g*
  - Electronic organ *RN Nov 190c*
- Schober organ kit
  - AE Jan 20g, Feb 23g*

- Theremin *Act Jun 16g*

- Wurlitzer piano *PE May 61g*

## Music synthesizer, RCA *RE Mar 56g*

## Muzak

- Opportunity in audio *Tc Nov 36g*

# N

## Navigation systems, inertial *TT Jan 61t*

- TACAN *RE Nov 88g*

## Neon lamps, light effect on

- breakdown *El Jan 176g*

## Networks

- bandwidth *IRE June 788t*
- calculations, star-delta *WW Oct 503t*
- Crossover, interference *AE Nov 15t*
- Crossover, survey *AE Nov 28t*
- decoupling *Act Mar 35t*
- Impedances, graphical
- noisy fourpoles, theory *IRE June 811t*
- solution *AE Dec 22t*
- step response
  - restrictions *IRE Sept 1160t*

## Noise

- causes *WW June 266g*
- characteristics and origins *El Mar 154t*
- generator *El Apr 135t*



Hearing enemy ..... *AE Nov 18c*  
 measuring techniques ..... *El May 162t*  
 methods of solving  
     problems ..... *IRE May 609t*  
 Minimizing ..... *TT Nov 72g*  
 physical sources of ..... *IRE May 601t*  
 probability theory ..... *WW May 235t*  
 radar sea clutter,  
     limiting cases ..... *IRE Aug 1043t*  
 reduction of ..... *El Jul 148t*  
 silencer, audio ..... *El Feb 156t*  
**Nomographs**  
     eccentric-line impedance ..... *El Sept 190d*  
     slab lines ..... *El Sept 192d*  
**Nonlinear elements,**  
     general properties,  
     energy relations ..... *IRE Jul 904t*

## O

**Organs, see Musical Instruments**  
**Organ concert, Mt. Kisco** ..... *Act May 24g*  
**Oscillators** ..... *AE Apr 26g*  
     audio  
         resistance-tuned ..... *PE Feb 78c*  
     calibrators  
         transistor ..... *RE Feb 44c*  
         tubeless ..... *RN Jan 63c*  
     code-practice  
         transistorized ..... *PE Mar 32c*  
     frequency stabilization ..... *WW May 219t*  
     FM noise ..... *IRE Mar 372t*  
     grid dip as crystal ..... *CQ June 30c*  
     Klystron, one-knob tuned ..... *El Sept 186g*  
     phase-shift, transistor ..... *TT Jul 55g*  
     Punched card reader for  
         blind ..... *El Nov 148g*  
     Pulse synchronized ..... *IRE Nov 1582t*  
     Scatter SSB technique,  
         klystron ..... *El Dec 176t*  
     servicing with ..... *SD Mar 10g*  
     Stabilization, local ..... *RCA Dec 534t*  
     sweep circuits, 500-kc  
         multivibrator ..... *El Feb 186g*  
     transistor  
         for CR tube ..... *El Sept 162g*  
         Meacham-bridge ..... *El Mar 193t*  
         phase-shift ..... *RN Apr 108c*  
         pnp-npn ..... *RN Jul 105g*  
         stability ..... *IRE Feb 219t*  
         superregenerative ..... *EL Jul 166g*  
     variable, stable circuit ..... *IRE Aug 1031g*  
     white dot-bar color ..... *Sv June 24g*  
         electro-mechanical ..... *WW June 252c*  
     wobbulator  
**Oscillographs**

cathode-ray recorder  
     permanent-writing ..... *El Apr 148t*  
     coding by timer codes ..... *El Jul 154g*  
**Oscilloscopes**  
     adapt for wideband ..... *TC May 38c*  
     amplifier compensation ..... *RE Apr 43c*  
     color-TV servicing ..... *Sv Feb 30g*  
     probes for ..... *SD Aug 14g*  
     servicing ..... *RN Jul 66g*  
     signal-triggered sweep ..... *El Apr 146t*  
     Varied uses ..... *PE Nov 43g*  
     voltage calibrator for ..... *CQ Aug 45c*  
     voltage coincidence ..... *WW Feb 85g*  
     Wamoscope ..... *RN Nov 105g*

## P

**Panoramic receivers,**  
     ferrite inductors tune ..... *EL Aug 169g*  
**Patents**  
     Licensing agreements ..... *AE Dec 48g*  
     Loss by delay ..... *AE Nov 23g*  
**Phase measurement, r.f., video**  
     ..... *El Jan 138t*  
**Phase shift** ..... *WW Apr 165t*  
     chart ..... *RE Sept 100d*  
**Phone patch** ..... *RE Jul 71c*  
     ..... *Aug 32g*  
**Phonographs**  
     automobile ..... *RN Apr 44g*  
     history of  
         ..... *RN Jan 58g, Feb 54g, Mar 64g*  
     pickups ..... *RN Jan 37g*  
         finding optimum load ..... *RE Oct 37g*  
         ceramic ..... *PF May 26g*  
     Compensation ..... *AE Nov 26t*  
     engineering  
         considerations ..... *pgA Jul-Aug 94g*  
     connecting ..... *Tc Jan 22g*  
     construction and operation  
         ..... *SD Apr 27g*  
     design of high quality ..... *JAE Jan 24g*  
     magnetic ..... *JAE Oct '55 202g*  
     Minimizing tracking error ..... *Act Dec 19t*  
     Radial tone arm ..... *JAE July 101t*  
**Playback stylus wear and**  
     surface noise ..... *JAE July 116g*  
     Pickering ..... *RE May 57g*  
     pickup arm, home-built ..... *Act May 26c*  
     portable, transistorized ..... *RN Aug 45c*  
     playback equalization ..... *JAE Oct 202g*  
     record-changers  
         adjustments ..... *PF May 14g*  
     record - compensation  
         controls ..... *PF Jan 31g*  
     record speed vs.  
         playing time ..... *AE Sept 17t*



speed accuracy *HF Jun 38g, Jul 29g*  
 turntables  
     vs changers *RN Feb 43g*  
     Fairchild Turromatic *AE Feb 20g*  
 speed changer *PE Aug 89c*  
 Photocell  
     relays  
         transistorized *PE Apr 56c*  
         self-generating *PE Jan 63c*  
 Photographic densitimer *RN Dec 49c*  
 Photographic processing  
     solutions, plastics for *MP Apr 227g*  
 Photographic timer *WW Feb 71c*  
     enlarging exposure  
         indicator *RE Sept 108c*  
     exposure meters,  
         evaluation of *MP Oct 552g*  
     high-speed motion picture  
         films for *MP Oct 555g*  
 Plotter, x-y, automatic *TT Feb 70g*  
 P-N Junction  
     Contact potential *RCA Dec 515t*  
 Potentiometers  
     servo-wound *EL Mar 276g*  
     standard *RE Feb 48c*  
 Power meters, phase-shift testing  
     *EL Jan 156g*  
 Power supplies  
     experimenter's *PE Jul 75c*  
     filter capacitor  
         trouble shooting *Tc Jan 21g*  
     filtering *Act Feb 24t*  
     for TV sound amplifier *Act Aug 24c*  
     high-voltage test *CQ Aug 22c*  
     regulation *RE Apr 88g*  
     transformers *Act Jan 21g*  
     transistors, for *PE Feb 47c*  
     Transistor, regulated *EL Nov 168t*  
     Transistor, regulated *EL Dec 169t*  
     variable, experimental *PE June 50c*  
 Preamplifiers, *see Amplifiers, audio*  
 Preselectors  
     all-band *PE Feb 52c*  
 Printed Circuits, *see Etched Circuits*  
 Probe  
     video testing *EL Apr 194g*  
 Program monitoring  
     assessing quality *WW May 228g*  
 Propagation, space-charge,  
     effect of field strength *IRE Jul 896t*  
     Microwave refractometer *EL Dec 150t*  
     Tropospheric scatter *WW Dec 587g*  
 Proximity detector *PE Apr 65c*  
 Psychoacoustics  
     frequency-range preferences

effect of learning *IRE Sept-Oct 133g*  
 listening for quality *Act Sept 26g*  
     *Oct 24g*

Public address systems  
     business, starting *Tc Oct 38g*  
     components for *Sv May 44g*  
     microphone wiring *Sv Sept 44g*  
     mobile, "Sound Bug" *RE Oct 34g*  
     profit in election work *Tc Sept 38g*  
     school systems, servicing *RE May 94g*  
     speaker phasing *Sv Sept 44g*  
     speaker use *Sv Aug 46g*  
     Vernon Downs Raceway *Sv Oct 40g*  
 Publicity, amateur radio,  
     how to get *CQ Aug 34g*  
 Publishing  
     About that book *TT Dec 50g*  
 Pulse discriminator, time-voltage  
 Pulse generators  
     delay-line *EL Jan 196c*  
     half-sine *EL Sept 176g*  
 Pulse techniques, in radio  
     communication *EC Sept 183g*  
     transistor *RN Jan 64c*  
 Pulse producer,  
     electromechanical *RE Jul 85g*

## R

RACES, procuring funds *QST June 54g*  
 Radar  
     AFC systems *EL Apr 138g*  
     amplifiers, transistor *EL Aug 142g*  
     ASDE, design of *TT June 86g*  
     Body irradiation  
         hazards *IRE Nov 1572g*  
     FM system *IRE Sept 1140t*  
     highway *PE May 35g*  
     Marine developments *WW Dec 585g*  
     optical simulation *TT June 110*  
     Performance *EL Dec. 182d*  
     precision interlace *EL May 168t*  
     Power-energy *TT Nov 75d*  
     pulse, performance prediction  
         *IRE Feb 224t*  
     pulsed search, maximum  
         angular accuracy *IRE Sept 1146t*  
     receivers, noise level in *TT May 74t*  
     second detector filter *EL May 188d*  
     S-Band, oscillator for *EL Sept 179g*  
     Shipborne *RN Nov 120g*  
     speed meters *TT Jan 64g*  
     target simulators  
         delay line *EL June 143t*  
         transistor generator *EL May 179t*  
     Target simulators *EL Nov 155g*



- TR switch  
instabilities ..... *IRE Apr 535t*  
tracking noise  
effect of AGC ..... *IRE June 801t*  
video simulator,  
three-dimensional ..... *EL Jul 131g*
- Radiation meter  
Civil Defense ..... *RE June 73c*
- Radio compass  
beam deflection tube ..... *EL May 166t*
- Radio controls  
Garage doors ..... *Sv Nov 28c*  
Three on one channel ..... *PE Nov 86c*
- Radio research, international  
cooperation, URSI & IRE *IRE Jul 866g*
- Railroad-radio  
service procedures ..... *Sv Sept 26g*  
modular ..... *RN Oct 40g*  
radio
- Radiation  
Suppression in medical  
equipment ..... *TT Nov 68c*
- Rain alarms, transistorized *PE Apr 58c*
- Reactance chart  
parallel components ..... *EL June 170d*
- Reactances, parallel and series,  
fundamentals ..... *Act Jun 30g*  
design for economy ..... *WW Aug 388g*
- Receivers  
Admiral 5W3 ..... *Tc Feb s*  
AM, improved audio  
quality ..... *RE Dec 80c*  
AM, recent trends ..... *RE Aug 30g*  
amateur  
band scanner for ..... *QST Aug 44c*  
low-noise adapter ..... *CQ May 21c*  
more bandspread on ..... *CQ Aug 46c*  
novice special ..... *QST June 34c*  
Q5'er ..... *CQ Jan 14c*  
S-9'er, improving ..... *CQ Aug 20c*
- Amateur  
C.W. Clipper filter ..... *QST Dec 36c*  
Johnson Pacemaker ..... *CQ Nov 36g*  
Signal slicer ..... *QST Dec 34c*
- auto  
Buick ..... *SD Jul 12g*  
Chrysler 1956 ..... *SD Sept 34g*  
eliminating noise ..... *RN Aug 50g*  
CW, filter-limiter for ..... *CQ Jul 32c*  
Motorola ..... *Tc Apr s*  
Design for ..... *WW Dec 582c*  
Motorola ..... *Tc Dec s*  
Binaural ..... *RN Nov 94c*  
new circuitry ..... *Sv Apr 18g*
- Oldsmobile ..... *SD May 20g*  
Packard ..... *SD June 10g*  
signal seeking ..... *Sv Apr 14g*  
transistor output ..... *RN Sept 60g*  
transistorized output stage  
..... *PF Jul 11g*  
vibrator breakdown  
causes ..... *Sv May 38g*
- clock radio,  
CBS Columbia 636, 656, 616 ..... *Tc Jul s*  
communications  
transistorized ..... *QST May 11c*  
crystal, emergency ..... *PE Feb 60c*  
Dumont RA-349 ..... *Tc Feb s*  
FM  
a.f.c. circuits ..... *PF Jul 25g*  
a.f.c. unit ..... *5c WW Feb 9*  
automatic frequency  
correction ..... *WW Sept 427g*  
crystal-controlled ..... *WW Jul 312c*  
local reception ..... *WW June 258c*  
reducing drift ..... *WW Aug 354g*  
3-tube ..... *RE Oct 56c*
- hi-fi phonograph,  
Admiral 5N3 ..... *Tc May s*  
modular ..... *RN Oct 40g*  
Motorola HS543 ..... *Tc Nov s*  
pocket, from hearing aids *PE May 52c*  
HRO, 21-mc coils for ..... *QST Jul 43c*  
Improving sensitivity ..... *RE Nov 108g*  
Long wave DX'er ..... *PE Nov 66c*  
Low-noise preamplifier ..... *QST Dec 42c*  
Pocket Transistor ..... *WW Nov 538c*
- portable  
Admiral 4E2, 4H2 ..... *Tc Nov s*  
1956 transistor models *SD June 18s*  
transistor ..... *PE May 42c, Jul 50c*  
RCA, RC-1156, 1159 ..... *Tc Feb s*  
RCA, RC-1156A ..... *Tc Dec s*  
repairing ..... *RN Jul 50g*
- radio  
Montgomery Ward  
GEN-1090A ..... *Tc Sept s*  
one-tube  
superheterodyne ..... *PE Sept 75c*  
shirt pocket,  
transistorized ..... *RE Jul 60c*  
shortwave,  
transistor regenerator *RE Aug 34c*  
prices charged ..... *Tc May 37g*  
RCA portables ..... *Sv Oct 50g*  
Quicker ..... *PF Dec 13g*  
sun powered ..... *RN Jul 49g*  
Truetone D2684A, D2685A *Tc Sept s*



Westinghouse V-2278-1 *Tc Sept s*  
radio-control  
27.255-mc *RE Apr 84c*  
regenerative  
transistorized *PE Mar 34c*  
Regenode *PE Jan 51c*  
signal-seeking *RN Mar 48g*  
sun-powered *RE Mar 34c, PE Mar 34c*  
Superheterodyne  
side-band mixing *IRE Nov 1595t*  
television  
Admiral *Sv Mar 14g, s*  
Admiral, Color *RN Sept 44g*  
Admiral 14YP3B *SD Oct s Tc Aug s*  
Admiral 17XP3, 17SX3,  
17X3Z/17SX3Z  
Admiral 18Y4E, 19Y4G,  
18YB *SD Feb s*  
Admiral 20Y4 Series *SD Feb s*  
alignment techniques *PF Sept 33g*  
Admiral 2921 *Sv Nov 24s*  
Conversion, modification *SD Dec 2g*  
Andrea VP21 *Tc Apr s*  
audio improvement *RE Jan 64g*  
Bendix T19 *Tc May s*  
Capehart CX-38S *Tc Jan s*  
Ch TV-330, -330U *SD Mar s*  
Ch TV-390, -392, -394, -396  
*SD Mar s*  
Ch TV-440, -444 *SD Mar s*  
color *IRE Mar 297t*  
adapter *RE Jan 40c*  
adjustment *RE Mar 44g*  
converter *Tc Apr s*  
color tuners *SD June 29g*  
Crosley 472-473 *SD May 25s*  
Crosley 476-477 *SD May 27s*  
Crosley 483, 484 *Tc Jun s*  
Crosley 487 *Tc Oct s*  
Crosley 489, 490 *Tc Dec s*  
Dumont RA-340/341,  
342/343 *Tc Jan s*  
Dumont RA-356, -357 *Tc May s*  
Dumont RA-370/371 *Tc Oct s*  
eliminating vertical retrace  
*Tc Jun 34c*  
DuMont RA380/381 *Tc Nov s*  
DuMont RA392/393 *SD Dec s*  
Emerson 1100 series *SD Jul 23s*  
Emerson 120220-D *SD June 25s*  
Emerson 120257, -258, -263,  
-265, -277, -278, -282 *Tc Feb s*  
Emerson 120292-P, 299-V  
293-T 300-X *Tc Jun s*  
Emerson 120306 *RE June 46s*

Emerson 120331, -2 *SD Oct s*  
experimental *WW Mar 112g*  
Emerson Color *RN Dec 68g*  
Emerson C504a, C502c,  
C503c, C505A, C506A,  
C507A *RN Nov 68g*  
Emerson 12092-P, 292-V,  
-299-V, -293-V, -293-X,  
-300-X *Tc Nov s*  
Fada Deluxe 400 *Tc Jan s*  
General Electric "M"  
Line *SD June 28s*  
General Electric 21T30  
"J" Line *SD May 44g*  
General Electric "O" Line *Tc Jan s*  
General Electric "S" Line *SD Aug 25s*  
*Tc Aug s*  
General Electric "ST" Line *Tc Apr s*  
General Electric "ST"  
line *Tc Dec s*  
GE "T" portable *SD Oct s Tc Sept s*  
Hallicrafters A2000D, B2000D,  
C2000D, D2000D *Tc Jan s*  
Hallicrafters A2005, B2005,  
C2005, D2005 *Tc Jul s*  
Hoffman, 326 *Tc Aug s*  
321 (U), 322 (U) *Tc Jun s*  
Hoffman 1144 *Sv Aug 20s*  
Hoffman Mark 5 Ch 419,  
419U *RE June 50s*  
Hoffman Color *RN Dec 42g*  
Hotpoint "MM" line *Tc Oct s*  
Hotpoint "MM" Line *SD Nov 25s*  
Hotpoint "U" Line *SD Nov 27s*  
input impedance *WW May 227t*  
installing Admiral color  
sets *RN Oct 42g*  
installing Hoffman sets *RN Sept 50g*  
Magnavox 117 *Tc Aug s*  
Magnavox 73 series *Tc Dec s*  
Montgomery Ward Models  
WG 4011B, 4012B, 5011B,  
5014B, 4111C, 5111C, 4112C,  
5114C, 5016A, 5116A, 5017A,  
5117A, 5018A, 5118A *Tc Jun s*  
Motorola, 21CT-2 *Sv Jul 10g, s*  
Motorola TS-537 *Tc Sept s*  
Motorola 661 *Sv Aug 28g*  
Olympic BD, BF *Tc Feb s*  
CA, CB, CE *Tc Jul s*  
Packard-Bell V8-1 *Tc Apr s*  
Packard-Bell 5R1 *Tc Jul s*  
Packard-Bell 88S2 *Tc Oct s*  
Raytheon Aristocrat 21T40-41,



21T43-46 ..... *Tc Jan s*  
 Raytheon, 21-inch ..... *Sv Jan 14g*  
 Ch 21T42 ..... *Tc Jul s*  
 Models 1U-1202, -1205, -1208,  
 -1212, -1215, -1218 ..... *Tc May s*  
 RCA color models ..... *Sv Sept 22g*  
 RCA color, CTC5, -5A ..... *Tc Sept s*  
 RCA CTC-5, -5N ..... *Sv Oct 34g*  
 RCA KCS-98A, -C, -E, -F ..... *SD Sept s*  
 RCA KCS 100 B ..... *SD June 26s*  
 RCA KCS 102B, D ..... *SD Oct s*  
 RCA KCS-103A, -B, -C, -D ..... *SD Sept s*  
 RCA KCS-103R, -T, -N, -P ..... *SD Sept s*  
 RCA KCS-104 series ..... *SD Sept s*  
 RCA 8PT-7030 ..... *Sv Sept 15g*  
 ..... *RE June 48s*  
 retrace line elimination ..... *RN Apr 52c*  
 Sentinel remote control ..... *PF Jan 17g*  
 RCA KCS102B, -102D ..... *Tc Nov s*  
 Trav-ler 510A-514A Series ..... *Tc Feb s*  
 Trav-ler 627A6 ..... *Tc Sept s*  
 trouble shooting, front end  
 ..... *Tc Feb 30g*  
 Westinghouse 2292-1 ..... *Sv June 18*  
 2340, -41, -42, -43,  
 -50, -51, -52 ..... *SD Aug 23s*  
 V2344, -54, -45, -55 ..... *Tc Jul s*  
 Westinghouse V2311 -2321  
 -2370 -2380 ..... *Tc Dec s*  
 Zenith, Flash-matic ..... *SD Jan 20g*  
 17Y20, 17Y22 ..... *Tc May s*  
 Zenith 17Z21, 17Z22 ..... *Tc Oct s*  
 three-valve t.r.f.  
 transistor ..... *RN Jan 41g*  
 Transistor type ..... *RE Nov 101g*  
 CBS-Columbia TR-260 ..... *RE Oct 54g*  
 circuitry ..... *RE June 78g*  
 Dewald K-701 ..... *RE Sept 92g*  
 G-E models 675, 676 ..... *RE Sept 99g*  
 Motorola 56T1 ..... *RE Oct 54g*  
 Raytheon FM-101A  
 (modified) ..... *RE Sept 91g*  
 regenerative ..... *RN Oct 78c*  
 Sentinel 369-P ..... *RE Oct 54g*  
 troubleshooting ..... *Sv Apr 22g*  
 Zenith Royal 500 ..... *RE Sept 92g*  
 transistorized ..... *PE Mar 33c, Apr 58c*  
 Transistorized, mobile FM ..... *El Nov 158t*  
 portables ..... *Sv Mar 20g*  
 Emerson ..... *Tc Apr s*  
 Motorola Ch HS-483 ..... *Tc May s*  
 Raytheon ..... *Tc Apr s*  
 testing ..... *Tc Apr 39g*  
 Zenith "Royal 500" 7XT40 ..... *Tc Aug s*  
 modifications ..... *WW Apr 182c*

USE as VFO for SSB ..... *CQ Nov 30c*  
 transistor superhet  
 i.f. strip ..... *RN Sept 100c*  
 front end ..... *RN Oct 114c*  
 wrist ..... *RN June 40c*  
 2-meter, grounded-grid  
 preamp ..... *RN Oct 46c*  
 15-meter, preselector ..... *PE Oct 53c*  
 Record collection,  
 guide to ..... *MH Nov-Dec 37g*  
 Recorded tapes,  
 how made ..... *MH Jul-Aug 44g*  
 Recorders  
 disc, doubling response of ..... *El Jul 125g*  
 amplifier for ..... *RE Jul 47c*  
 checking ..... *Act May 34g*  
 optical timer ..... *Act May 35c*  
 tone compensator ..... *PE Jul 77c*  
 Rebuild ..... *Act Nov 18c*  
 tape  
 brakes ..... *PF March 18g*  
 connections ..... *PE May 76c*  
 commercial ..... *AE Feb 27g*  
 connecting ..... *PE Mar 74c*  
 connecting ..... *PE Apr 82c*  
 maintenance ..... *PF May 33g*  
 make money with ..... *TR Feb 40g*  
 playback requirements ..... *WW May 215g*  
 servicing ..... *RE May 75g*  
 servicing ..... *RE June 32g*  
 servicing ..... *Tc Feb 28g*  
 stereo conversion, V-M ..... *TR Feb 30c*  
 system connections ..... *Act Jan 12c*  
 transistorized ..... *JAE Oct '55 198g*  
 Viking FF75 tape deck,  
 preamp for ..... *RN Feb 46c, Mar 49c*  
 voice teaching with ..... *TR Feb 34g*  
 wow and flutter ..... *Sv Apr 44g*  
 Recording  
 at political conventions ..... *TR Oct 21g*  
 brass instruments ..... *TR Oct 30g*  
 disc ..... *AE Jan 17t*  
 16 mm for TV ..... *MP June 336g*  
 hot stylus ..... *AE June 24c*  
 pigments ..... *JAE Oct 186g*  
 Disc characteristics ..... *WW Nov 626t*  
 Embossed kinescope,  
 densitometry ..... *MP Dec 648g*  
 Field trips ..... *TR Dec 30g*  
 Lathes precision master ..... *JAE Apr 50g*  
 Magnetic replaceable pole  
 tip caps ..... *MP Dec 652g*  
 Mixing it up ..... *PE Nov 84c*  
 motion picture, compression  
 and dialog equalization ..... *AE June 17g*



- off-the-air, sale of \_\_\_\_\_ *TR June 40g*  
 room acoustics \_\_\_\_\_ *TR Feb 42g*  
 sound screen for \_\_\_\_\_ *TR June 20g*  
 Single system camera  
   equipment \_\_\_\_\_ *MP Nov 603g*  
 string instruments \_\_\_\_\_ *TR Apr 32g*  
 tape  
   amplifier \_\_\_\_\_ *RN Apr 46c*  
   automatic sound-track  
     inspection \_\_\_\_\_ *El Mar 164g*  
   background noise  
     reduction \_\_\_\_\_ *RE Oct 43g*  
   distortion \_\_\_\_\_ *AE Oct 30g*  
   dubbing \_\_\_\_\_ *RN June 66g*  
   equalization \_\_\_\_\_ *RN Jan 66g, Feb 48g*  
   magnetization \_\_\_\_\_ *MP Feb 69t*  
   practical consideration \_\_\_\_\_ *Sv Aug 32g*  
   stereo \_\_\_\_\_ *Act Jan 19c*  
   usefulness on ship \_\_\_\_\_ *TR Oct 24g*  
 Record players  
   hi-fi, RCA RS-158 \_\_\_\_\_ *Tc Aug 8*  
   portable, modifications \_\_\_\_\_ *Sv Mar 42c*  
 Records  
   artistic integrity \_\_\_\_\_ *AE Mar 20g*  
   care of \_\_\_\_\_ *HF Feb 58g*  
 Rectifiers  
   polarity \_\_\_\_\_ *RE Apr 102g*  
   selenium, life test \_\_\_\_\_ *TT Apr 68g*  
 Reflectivity meter \_\_\_\_\_ *TT Apr 79g*  
 Refrigeration units  
   servicing \_\_\_\_\_ *Tc Jul 26g, Aug 24g*  
 R.f. cables, selection of \_\_\_\_\_ *TT July 52d*  
 Relays  
   Automatic machine \_\_\_\_\_ *RE Dec 50c*  
   converting 28 v. to 6 and  
     12 v. \_\_\_\_\_ *CQ Jan 37c*  
   operation-maintenance,  
     servicing \_\_\_\_\_ *Sv June 22g*  
   sound-operated \_\_\_\_\_ *RE Jan 58c, Mar 91c*  
   speed and adjustment \_\_\_\_\_ *QST June 21g*  
   stability tests for \_\_\_\_\_ *TT Aug 68g*  
   use of \_\_\_\_\_ *QST May 28t*  
   vacuum \_\_\_\_\_ *TT Jan 58g*  
 Reliability  
   airline approach \_\_\_\_\_ *TT May 66g*  
   approach to \_\_\_\_\_ *IRE Apr 523t*  
   redundant circuits \_\_\_\_\_ *IRE Apr 509t*  
   tube-  
     characteristic changes \_\_\_\_\_ *TT June 96g*  
 Remote control  
   dual pulser \_\_\_\_\_ *PE Sept 63c*  
   wireless \_\_\_\_\_ *Tc Apr 32c*  
   with wired-wireless \_\_\_\_\_ *PE May 66c*  
   receiver for \_\_\_\_\_ *PE June 63c*  
 Resistors, characteristics \_\_\_\_\_ *WW June 263g*  
 Resonant frequency \_\_\_\_\_ *RE Dec 78d*  
 Response curves  
   Universal \_\_\_\_\_ *El Dec 184d*  
 Reverberation  
   listening room \_\_\_\_\_ *RN June 43g*  
   unit \_\_\_\_\_ *RE Feb 25c*  

## S

 Scintillation counter \_\_\_\_\_ *RE Feb 34c*  
   proper use of \_\_\_\_\_ *PE Jul 48c*  
 Screens, rear-projection  
   high efficiency \_\_\_\_\_ *MP Sept 470g*  
 Selenium rectifiers \_\_\_\_\_ *PF Oct 19g*  
   high-voltage, applications \_\_\_\_\_ *RN Oct 70g*  
   increasing rating \_\_\_\_\_ *PE Sept 67c*  
 Semiconductors  
   electron voltaic effect in \_\_\_\_\_ *RCA Mar 100t*  
   surface treatment of silicon  
     \_\_\_\_\_ *RCA Mar 5t*  
   terminology \_\_\_\_\_ *WW Jul 317g*  
 Service kit, components \_\_\_\_\_ *PF Nov 14g*  
 Service kit,  
   television, universal \_\_\_\_\_ *RE Jul 33g*  
 Service Problems  
   television  
     Admiral 22A2 and General  
       Elec. 21T7 \_\_\_\_\_ *SD Jan 27g*  
     Admiral 22A3AZ and Philco  
       TV440 \_\_\_\_\_ *SD Feb 31g*  
     Westinghouse V-2315 and  
       Zenith 19L26 \_\_\_\_\_ *SD Apr 44g*  
 Service Shop  
   business \_\_\_\_\_ *SD May 14g*  
   mechanized accounting \_\_\_\_\_ *SD Mar 26g*  
 Servicing  
   alignment, generator  
     and scope \_\_\_\_\_ *Tc Jun 30g*  
   Appliances \_\_\_\_\_ *Sv Nov 34g*  
   audio amplifier \_\_\_\_\_ *PF Oct 37g*  
   basic tools \_\_\_\_\_ *Sv Aug 38g*  
   BC receivers, alignment \_\_\_\_\_ *RE June 80g*  
   chemical aids \_\_\_\_\_ *PF March 29g*  
   Color TV \_\_\_\_\_ *RN Dec 46g Dec 64g*  
   Color, TV installation \_\_\_\_\_ *RN Dec 52g*  
   converter \_\_\_\_\_ *El Mar 214g*  
   commercial aspects \_\_\_\_\_ *RN Jun 52g, Jul 55g*  
   customer relations \_\_\_\_\_ *RN Sept 59g*  
   electronic, profit in \_\_\_\_\_ *SD Sept 16g*  
   foreign makes \_\_\_\_\_ *Tc Jun 28g*  
   hi-fi, oscilloscope \_\_\_\_\_ *Tc Jul 30g*  
   New designs \_\_\_\_\_ *PF Dec 14g*  
   Oscilloscopes \_\_\_\_\_ *RN Dec 56g*  
   removing chassis \_\_\_\_\_ *RN Sept 70g*  
   shop tickets,  
     protection by \_\_\_\_\_ *SD Sept 20g*



- test points \_\_\_\_\_ *Tc Oct 35g*  
transistor radios \_\_\_\_\_ *RE Sept 82g*  
TV,  
    horizontal instability \_\_\_\_\_ *Tc Jul 28g*  
    locating blown fuses \_\_\_\_\_ *Sv Sept 12g*  
    smear and phase shift \_\_\_\_\_ *Tc Oct 42g*  
    snivets \_\_\_\_\_ *Sv June 34g*  
Union shops \_\_\_\_\_ *RN Oct 56g*  
Servo amplifier  
    self-balancing \_\_\_\_\_ *El Mar 196t*  
    using transistors \_\_\_\_\_ *El Sept 153g*  
Sight and Sound vacation \_\_\_\_\_ *TR Aug 20g*  
Signal tracer  
    absorption meter  
        probemeter \_\_\_\_\_ *SD Jan 31g*  
        low-cost \_\_\_\_\_ *PE Mar 56c*  
Silver migration \_\_\_\_\_ *TT Feb 64t*  
Sine waves, fundamentals \_\_\_\_\_ *Act Aug 27g*  
Single Sideband  
    Aeronautical communications,  
        transition problems \_\_\_\_\_ *IRE Dec 1803t*  
    Amateur service \_\_\_\_\_ *IRE Dec 1829g*  
    antenna network \_\_\_\_\_ *CQ Apr 49c*  
    Automatic tuning tech-  
        niques \_\_\_\_\_ *IRE Dec 1766t*  
    Carrier strength  
        performance \_\_\_\_\_ *IRE Dec 1839t*  
    Communications,  
        introduction \_\_\_\_\_ *IRE Dec 1667g*  
    compact exciter design \_\_\_\_\_ *QST Sept 11c*  
    linear amplifier \_\_\_\_\_ *CQ Jan 28c*  
        SS-75 filter rig \_\_\_\_\_ *CQ Apr 25c*  
    Double SSB to single  
        SSB conversion \_\_\_\_\_ *IRE Dec 1794t*  
    Early history \_\_\_\_\_ *IRE Dec 1676g*  
    Electromechanical filters \_\_\_\_\_ *IRE Dec 1744t*  
    Frequency control \_\_\_\_\_ *IRE Dec 1697t*  
    High power VHF system \_\_\_\_\_ *IRE Dec 1848t*  
    Int'l telegraph  
        operation \_\_\_\_\_ *IRE Dec 1782g*  
    Linear power amplifier  
        design \_\_\_\_\_ *IRE Dec 1754t*  
    Linear SSB transmitters vs envelope  
        elimination and restoration  
        SSB transmitters \_\_\_\_\_ *IRE Dec 1706t*  
    Linearity testing techniques  
        \_\_\_\_\_ *IRE Dec 1775t*  
    Mobile service VHF \_\_\_\_\_ *IRE Dec 1834t*  
    Mobile system techniques  
        \_\_\_\_\_ *IRE Dec 1824t*  
    Operational transition  
        problems \_\_\_\_\_ *IRE Dec 1800t*  
    Phasing type exciters \_\_\_\_\_ *QST Nov 16t*  
    Point-to-point equipment  
        \_\_\_\_\_ *IRE Dec 1789t*  
Power and economics \_\_\_\_\_ *IRE Dec 1689g*  
Product detector \_\_\_\_\_ *CQW Nov 19c*  
Q Multiplier \_\_\_\_\_ *QST Sept 40c*  
Receiver design factors  
    \_\_\_\_\_ *IRE Dec 1750t*  
receiving adapter \_\_\_\_\_ *QST Aug 30g*  
Signal generation and  
    detection \_\_\_\_\_ *IRE Dec 1703t*  
Signal generation phase  
    shift method \_\_\_\_\_ *IRE Dec 1718t*  
Signal reception phase  
    shift method \_\_\_\_\_ *IRE Dec 1735t*  
Spectrum conservation \_\_\_\_\_ *IRE Dec 1685g*  
Synchronous communications  
    \_\_\_\_\_ *IRE Dec 1713t*  
Synthesizer stabilized  
    systems \_\_\_\_\_ *IRE Dec 1680g*  
Transmitter distortion  
    reduction \_\_\_\_\_ *IRE Dec 1760t*  
Two meter \_\_\_\_\_ *CQ Nov 43c*  
UHF long-range techniques  
    \_\_\_\_\_ *IRE Dec 1854t*  
Skin losses, eddy-current  
    bridge \_\_\_\_\_ *TT June 106g*  
Slab lines, impedance \_\_\_\_\_ *El Sept 192d*  
Solar flare indicator \_\_\_\_\_ *RE Aug 51c*  
Soldering  
    dip \_\_\_\_\_ *WW Jul 304g*  
    how to \_\_\_\_\_ *Act Sept 21g*  
    on glass \_\_\_\_\_ *CQ Jul 59g*  
Soldering gun, applications \_\_\_\_\_ *Tc Jul 36g*  
Sound servicing  
    amplifiers \_\_\_\_\_ *Act Apr 10g*  
    distortion \_\_\_\_\_ *Act May 10g*  
    loudspeakers \_\_\_\_\_ *Act Jun 10g, Jul 10g,*  
        \_\_\_\_\_ *Aug 10g*  
Sound  
    How loud is silence \_\_\_\_\_ *AE Mar 17t*  
Sound effects  
    console for U.N. studios \_\_\_\_\_ *AE Sept 26g*  
    in Disneyland \_\_\_\_\_ *RN Aug 52g*  
Sound movies  
    club equipment \_\_\_\_\_ *TR Apr 44c*  
Sound systems,  
    installing and operating \_\_\_\_\_ *Sv Jul 28g*  
Spark gaps,  
    as circuit component \_\_\_\_\_ *TT Aug 80g*  
Spectrum analysis, selection  
    of pulses for \_\_\_\_\_ *El Aug 179g*  
Speech analysis,  
    use of spectograms for \_\_\_\_\_ *JAE Jan 14t*  
Speech clipper  
    preamplifier \_\_\_\_\_ *CQ Feb 43c*  
Speech synthesis,  
    by analog devices \_\_\_\_\_ *JAE Jan 2t*



fundamentals ..... *JAE Oct '55 170t*  
 Speed meters, radar ..... *TT Jan 64g*  
 Square-wave generator ..... *RN Mar 130c*  
 add to present equipment ..... *Tc Jul 35c*  
 testing with ..... *WW Aug 364g*  
 Square-wave patterns  
   Interpretation ..... *Tc Nov 30t*  
 Staircase generator ..... *El Feb 192c*  
 Standards  
   electronic computers, definitions  
     of terms ..... *IRE Sept 1166g*  
   hi-fi equipment,  
     applicable ..... *pgA Jul-Aug 88g*  
 Stanomatic  
   Document processor for  
     computers ..... *El Dec 164g*  
 Stereophonic  
   In the home ..... *WW Nov 541g*  
 Stereo recording  
   Comes of age ..... *RE Nov 57g*  
   how to make ..... *TR Apr 37g*  
   recording systems ..... *WW Jul 331g*  
   reproduction, Perspecta ..... *RN Aug 35g*  
   reverberation ..... *pgA Jul-Aug 98g*  
   sunderama concert ..... *TR Apr 42g*  
   standards, IRE ..... *IRE Apr 521d*  
   system  
     basic requirements ..... *WW May 206g*  
     planning ..... *MH Oct 46g*  
   systems, basic requirements  
     ..... *WW May 206g*  
   10 ways to enjoy ..... *TR Dec 25g*  
   Why bother ..... *TR Dec 34g*  
 Stereo tape  
   Comes of age ..... *RE Dec 46g*  
 Sterilization, electronic ..... *RE Jul 82g*  
 Storage-tubes  
   designing equipment ..... *El Jul 126t*  
   radar simulating ..... *El Apr 181t*  
 Stroboscopic flash,  
   counter control of ..... *El Aug 160g*  
 Studios  
   temperature reduction in ..... *MP Mar 136g*  
 Sunspots ..... *RE Apr 49g*  
 Sweep generator  
   transistorized ..... *EC Sept 228g*  
 Switches, Touch-O-Matic  
   control ..... *PE Sept 39c*

## T

Tachometer, high sensitivity ..... *El Sept 158g*  
 Tachometer, motor speeds ..... *RN Nov 70c*  
 Tape  
   How to choose ..... *RN Nov 58g*  
   Insulating, use of ..... *SD Nov 15g*

magnetic  
   design criteria ..... *JAE Oct '55 210t*  
   duplicating, mass production  
     experiences ..... *JAE Jan 31g*  
   influence of pigments ..... *JAE Jan 38g*  
   pigments for ..... *JAE Oct '55 186g*  
   Products and applications  
     ..... *JAE July 90t*  
 Multiple copying ..... *AE Dec 36g*  
 Radio pictures on ..... *WW Nov 550g*  
 reproducers, four-track  
   replaceable gap ..... *MP Jul 373g*  
   selection of type ..... *Sv Sept 20g*  
   storing methods ..... *TR Oct 28g*  
   splicing ..... *TR Apr 28g*  
 Tape recorder center ..... *TR Aug 34c*  
   Applications ..... *pgA Nov-Dec 55g*  
 Technical writing  
   requirements ..... *PE Sept 73*  
 Telemetering  
   bandwidth requirements ..... *TT May 79g*  
   bibliography ..... *El Apr 179d*  
   demodulator, for F-M data ..... *El Jul 157g*  
   missiles ..... *El June 134t*  
   receiver bandwidth  
     reduction ..... *El May 174g*  
   small missiles,  
     transistors in ..... *El Jul 145g*  
   special section ..... *El Apr 155g*  
 Telephones  
   answering machine ..... *WW Jul 344g*  
   dial systems ..... *PE Jul 95g*  
   7E Rotary ..... *EC Sept 195g*  
   Video accessories  
     ..... *PE Nov 41g RN Nov 43g*  
   World statistics ..... *EC Sept 241d*  
 Teletype  
   narrow-shift FSK ..... *CQ Jan 45c*  
   frequency shift,  
     converter ..... *CQ June 40c*  
   printer modification ..... *CQ May 63c*  
 Television  
   AGC circuits  
     keyed ..... *Sv Oct 36g*  
     troubleshooting ..... *RE May 46g*  
     tubes and circuits in ..... *Sv Sept 34g*  
   amplifier, pedestal processing  
     ..... *RCA June 297g*  
   AGC alignment in ..... *RE Dec 92g*  
   Amateur, color ..... *WW Nov 548g*  
   "Apple" receiver  
     current status ..... *IRE Sept 1120g*  
   automatic-tuning chassis  
     etched wiring facilitates



service \_\_\_\_\_ *Sv Oct 19g*  
 Broadcasting  
   Proof of performance \_\_\_\_\_ *El Nov 150g*  
   Test signal \_\_\_\_\_ *RCA Dec 553g*  
 Camera tubes for color \_\_\_\_\_ *MP Dec 636g*  
 closed-circuit \_\_\_\_\_ *PE Jul 67g*  
   art of \_\_\_\_\_ *MP Aug 435g*  
   black and white  
     film recording \_\_\_\_\_ *MP Jul 359g*  
   detectors \_\_\_\_\_ *SD Aug 28g*  
   fluorescent dot size \_\_\_\_\_ *MP Aug 407t*  
   fundamentals \_\_\_\_\_ *WW Aug 360g*  
   i.f. amplifiers \_\_\_\_\_ *Sv Aug 17g*  
     recording \_\_\_\_\_ *MP Jul 365t*  
 Kinescope, embossed film  
   recording \_\_\_\_\_ *MP Jul 365t*  
   mobile unit \_\_\_\_\_ *TT Jun 94g*  
   pulse-generator techniques \_\_\_\_\_ *RE Sept 44g*  
   test equipment for \_\_\_\_\_ *RN Aug 63g*  
   tubes, single-gun \_\_\_\_\_ *RN Jul 62g*  
   operation \_\_\_\_\_ *PF Aug 33g*  
   design \_\_\_\_\_ *TT Jul 50t*  
   video i.f. analysis \_\_\_\_\_ *SD Jul 14g*  
 Closed circuit, slow-sweep \_\_\_\_\_ *El Nov 140g*  
 color \_\_\_\_\_ *MP Feb 73g*  
   antennas, transmission lines  
     \_\_\_\_\_ *Sv Mar 39g*  
   artwork with opaques \_\_\_\_\_ *MP Apr 205t*  
   beam-indexing  
     display \_\_\_\_\_ *IRE Sept 1108t*  
 Color circuits \_\_\_\_\_ *RN Nov 42t*  
   compact plug-in  
     equipment \_\_\_\_\_ *MP Sept 488g*  
   directions of  
     improvement \_\_\_\_\_ *IRE Sept 1125t*  
   illumination control \_\_\_\_\_ *MP Sept 496g*  
   lighting experience \_\_\_\_\_ *MP Oct 559g*  
   luminance section \_\_\_\_\_ *SD Sept 12g*  
     \_\_\_\_\_ *SD Oct 12g*  
   simplified convergence  
     adjustment \_\_\_\_\_ *Sv Oct 22g*  
   tape recording \_\_\_\_\_ *RCA Sept 330g*  
   beam-indexing  
     "Apple" \_\_\_\_\_ *IRE Sept 1115g*  
   Gamma of \_\_\_\_\_ *MP Oct 546t*  
   experimental receiver \_\_\_\_\_ *WW Apr 183t*  
   more lines \_\_\_\_\_ *WW Apr 173g*  
   installation, servicing \_\_\_\_\_ *Sv May 20g*  
   matrix operation \_\_\_\_\_ *RE May 44t*  
   mobile unit \_\_\_\_\_ *TT June 94g*  
   r.f.-i.f. analysis \_\_\_\_\_ *SD May 16g*  
   service experiences \_\_\_\_\_ *RE May 48g*  
   single-gun system \_\_\_\_\_ *TT June 98g*  
   sync analysis \_\_\_\_\_ *SD Apr 22*

improvements in  
   the 21AXP22 \_\_\_\_\_ *RCA June 143g*  
 color-bar adjustments,  
   transparency viewer for \_\_\_\_\_ *Sv Jul 12g*  
 Color, killer circuit analysis \_\_\_\_\_ *SD Dec 12t*  
 Color, sales and service-  
   Chicago \_\_\_\_\_ *PF Dec 21g*  
 color tubes  
   General Electric \_\_\_\_\_ *PF Jan 25g*  
   one-gun \_\_\_\_\_ *El June 150g*  
 color signal generator  
   portable \_\_\_\_\_ *El Sept 170g*  
 Color tubes, flat \_\_\_\_\_ *WW Dec 570g*  
 colorimetry \_\_\_\_\_ *MP Apr 201g*  
 converter, Col-R-Tel \_\_\_\_\_ *Tc Apr 43g*  
 damper circuits,  
   operation of \_\_\_\_\_ *PF Aug 33g*  
   design \_\_\_\_\_ *TT Jul 50t*  
 deflection  
   servicing \_\_\_\_\_ *Sv Mar 18d*  
 deflection yoke  
   testing \_\_\_\_\_ *Tc Feb 24g*  
 distribution systems \_\_\_\_\_ *WW Feb 88g*  
 films, threading leaders \_\_\_\_\_ *MP Aug 437g*  
 firefighting by \_\_\_\_\_ *PE Oct 45g*  
 flyback circuits,  
   new developments \_\_\_\_\_ *RN Aug 60g*  
   pulse-generator \_\_\_\_\_ *RE Aug 73g*  
 full-wave doublers  
   heater-cathode stress \_\_\_\_\_ *RE Sept 40g*  
 ghosts, causes and cures \_\_\_\_\_ *Tc Sept 46g*  
 higher definition-  
   vs-color \_\_\_\_\_ *WW May 239g*  
 horizontal amplifier  
   tube tests \_\_\_\_\_ *Sv Sept 28g*  
 horizontal flyback \_\_\_\_\_ *PF Apr 26t*  
 I. F. systems \_\_\_\_\_ *Tc Dec 33t*  
 industrial \_\_\_\_\_ *Re May 50g*  
 Industrial techniques \_\_\_\_\_ *RE Nov 46t*  
 intercarrier sound,  
   sampling detector \_\_\_\_\_ *El Aug 138g*  
 Interference, co-channel  
   reduction \_\_\_\_\_ *RCA Dec 443g*  
 Lighting, color opaques \_\_\_\_\_ *MP Nov 606g*  
 lighting  
   carbon arcs \_\_\_\_\_ *MP Aug 432g*  
   color, survey and report \_\_\_\_\_ *MP Jul 384g*  
   monochrome,  
     survey and report \_\_\_\_\_ *MP July 382g*  
   network programs \_\_\_\_\_ *MP Sept 494g*  
 luminance-vs chroma delay  
   measurement \_\_\_\_\_ *TT June 88g*  
 keyed AGC systems  
   operation \_\_\_\_\_ *PF Jul 18g*



sweep generation  
resonant lines \_\_\_\_\_ IRE June 768t  
Switching and controls  
color and monochrome \_\_\_\_\_ MP Dec 643g  
sync system  
signal tracing \_\_\_\_\_ PF Feb 25g  
troubles in \_\_\_\_\_ PF May 17g  
troubleshooting \_\_\_\_\_ Tc Jan 28g  
toroidal transformers for \_\_\_\_\_ El May 150t  
transmitters  
color correction \_\_\_\_\_ El Apr 131t  
spurious emission filter \_\_\_\_\_ TT Apr 86t  
AGC circuits \_\_\_\_\_ PF March 9g  
RE June 40g  
troubleshooting  
horizontal sweep \_\_\_\_\_ Tc Aug 22g  
stock guide \_\_\_\_\_ PF Aug 45g  
Neutrode \_\_\_\_\_ RE Jul 30g  
tubes  
electron beam  
convergence \_\_\_\_\_ RCA June 168t  
grainless screens \_\_\_\_\_ MP Apr 197g  
tuners  
circuitry for \_\_\_\_\_ Sv May 22g  
noise and gain \_\_\_\_\_ RN June 46g  
UHF \_\_\_\_\_ PF Apr 25g  
U.H.F.  
propagation problems \_\_\_\_\_ WW Apr 169t  
underwater observation \_\_\_\_\_ MP June 311g  
Vertical instability cures \_\_\_\_\_ Sv Nov 12g  
VHF vs. UHF \_\_\_\_\_ PF Oct 13g  
video amplifiers \_\_\_\_\_ PF Aug 10g  
Vitascan \_\_\_\_\_ TT Feb 60g  
Video switching \_\_\_\_\_ El Dec 146t  
video systems, 2-stage  
"Decatron" \_\_\_\_\_ Sv Sept 18g  
world wide \_\_\_\_\_ RE Sept 37g  
writing speed \_\_\_\_\_ PF Sept 23g  
decade units, designing \_\_\_\_\_ WW Oct 493g  
television films,  
threading leaders \_\_\_\_\_ MP Aug 437g  
VI  
filter, 6-Meter \_\_\_\_\_ CQ Jul 21c  
reducing \_\_\_\_\_ Sv Jul 16g  
test instruments  
Audio-amplifier-audio tester \_\_\_\_\_ RE Dec 60c  
A. F. Response measurements  
WW Dec 610g  
a.f. calibrator \_\_\_\_\_ RE June 56c  
Audio oscillator \_\_\_\_\_ PE Dec 75c  
audio oscillators  
resistance-tuned \_\_\_\_\_ RE Sept 48c  
use of \_\_\_\_\_ Act Jun 20g Jul 24g  
wide-range \_\_\_\_\_ WW Oct 508c  
applications \_\_\_\_\_ Tc Oct 40g







- Thyratrons**  
 magnetic control ..... *IRE Apr 529t*
- Time**  
 Bandwidth-rise, chart ..... *El Nov 188d*
- Time constants** ..... *RE Mar 36t*  
 sync circuits ..... *PF March 27g*
- Time generator** ..... *El Mar 179g*
- Time switches,**  
 design your own ..... *PE Sept 69c*
- Timer, cyclic** ..... *RE Feb 38c*  
 heavy duty clock ..... *PE June 67c*
- Timer**  
 Electronic ..... *PE Nov 59c*
- Tone controls** ..... *RN Mar 112c*  
 additive type ..... *RN Sept 92c*  
 feedback circuit ..... *AE Aug 18c*  
 switch-type ..... *AE Sept 17c*  
 Understanding ..... *SD Nov 14g Dec 10g*  
 Use of ..... *PE Nov 53g*
- Tools**  
 Solder guns, working with ..... *PF Dec 16g*
- Traffic control**  
 Radio, railroad, Venezuela ..... *El Dec 158g*
- Trailer**  
 sound systems ..... *Act Jan 24g*
- Transceiver**  
 miniature ..... *WW Mar 141c*  
 420mc-BC-645 ..... *CQ Dec 66c*
- Transfluxor** ..... *IRE Mar 321t*
- Transformers**  
 audio  
 for "zero impedance"  
 amplifiers ..... *AE Mar 27*  
 influence on circuits ..... *AE May 19t*  
 input, design ..... *AE June 27t*  
 UL output, stability of ..... *WW Jan 29t*  
 filament, low capacitance ..... *CQ Jul 40c*  
 input, design ..... *AE Jul 17t*  
 laminations, nickel ..... *TT Mar 70t*  
 "miniaturization" ..... *IRE Apr 515t*  
 output, design ..... *AE Sept 20t*  
 voltage phases in ..... *PF Jan 23t*  
 voltage-regulated  
 for TV sets ..... *Tc Jul 34g*  
 Power amplifiers, design ..... *RN Nov 72g*  
 Power, checks on ..... *Tc Nov 35g*  
 Tuned, design chart ..... *El Nov 182d*
- Transistors**  
 for beginners ..... *WW Sept 449g*  
 airborne  
 audio equipment ..... *pgA Jul-Aug 90g*  
 alpha-beta conversion ..... *TT Mar 74d*  
 audio use ..... *AE Feb 17g*  
 Audio P.A. Design ..... *pgA Nov-Dec 55t*
- Audio power output stages ..... *JAE Apr 60g*  
 base layer resistivity ..... *IRE Feb 72t*  
 bias stabilization ..... *AE May 34t, Jul 20t*  
 circuitry for ..... *CQ Jul 54g*  
 in Japan ..... *El Jul 120g*  
 characteristics tables  
 ..... *El Jan 161, RE Feb 40d*
- Computer switching ..... *TT Dec 38t*  
 CR Tube power supply ..... *El Sept 162g*  
 Follower circuit ..... *RN Nov 166c*  
 fundamentals ..... *AE Oct 15g*  
 Germanium, uniform  
 planar junctions ..... *RCA Mar 46t*  
 high emitter efficiency ..... *RCA Mar 37g*  
 High speed flip-flop ..... *El Dec 180t*  
 diffusion ..... *El Feb 137g*  
 in audio circuits ..... *Act Dec 26t*  
 junction  
 alpha greater than 1 ..... *IRE Mar 360t*  
 reliability of ..... *IRE Apr 494t*  
 Junction, new circuits ..... *El Nov 178g*  
 Lesser known types ..... *RE Nov 78g*  
 operation ..... *WW Aug 394g Act Oct 18g*  
 limitations ..... *CQ May 41t*  
 melt-quench fabrication ..... *IRE Feb 185t*  
 tandem ..... *TT Feb 58t*  
 negative resistance ..... *IRE Jan 65t*  
 operating conditions ..... *WW Mar 109t*  
 P-N-P-N switches ..... *IRE Sept 1174t*  
 power ..... *RN Feb 37g*  
 regenerative receiver ..... *PE Oct 63c*  
 remote tuning system ..... *WW Aug 369g*  
 r.f. characteristic measurement  
 ..... *El Feb 152t*  
 servicing ..... *RN Mar 53g*  
 servo amplifiers ..... *El Sept 153g*  
 silicon, micro-power  
 operation ..... *TT May 76t*  
 Specifications ..... *TT Dec 53d*  
 Tandem, bias stabilization ..... *TT Nov 71t*  
 Testing methods ..... *IRE Nov 1542t*  
 transition to ..... *Act Apr 16g*  
 understanding  
 specifications ..... *PF Apr 15g*  
 understanding the r's ..... *AE Aug 21t*  
 vs vacuum tubes ..... *IRE Apr 479t*  
 Types ..... *Act Nov 22g*
- Transmission Line**  
 capacitance of ..... *EC Sept 234g*  
 Coaxial, community TV ..... *Sv Nov 26g*  
 Feedline loss ..... *QST Dec 18t*  
 G-Line ..... *RN Nov 40g*  
 selection of ..... *RN June 39d*  
 tapered, matching section



- IRE Apr 539t*
- Transmitter-receiver  
 50-mc, CD use \_\_\_\_\_ *QST June 11c*
- Transmitters  
 amateur  
 2-meter \_\_\_\_\_ *CQ June 33c*  
 4-watt a.c./d.c. \_\_\_\_\_ *CQ Apr 28c*  
 80-Meter, 25-Watt \_\_\_\_\_ *QST Jul 15c*  
 6 meter, with TV-75A \_\_\_\_\_ *CQ Jan 24c*  
 160 meter \_\_\_\_\_ *CQ Feb 58c*  
 220 meter \_\_\_\_\_ *CQ Apr 26c*  
 837 linear amplifier \_\_\_\_\_ *CQ Feb 26c*  
 a.c.-d.c. \_\_\_\_\_ *CQ Jan 32c*  
 bandswitching, 144  
 & 220 Mc \_\_\_\_\_ *CQ May 23c*
- Amateur  
 All transistor \_\_\_\_\_ *RN Dec 62c*  
 Grounded-grid linear 4X150A  
 \_\_\_\_\_ *QST Dec 22c*  
 bandswitching mixer \_\_\_\_\_ *CQ May 50c*  
 converting 6146 oscillator  
 to amplifier \_\_\_\_\_ *QST Aug 21c*  
 converting to SSB \_\_\_\_\_ *CQ Aug 42c*  
 "Handbook Rig" \_\_\_\_\_ *QST Sept 44c*  
 8B six-band \_\_\_\_\_ *QST Oct 33c*  
 144 Mc, 4X250B \_\_\_\_\_ *QST Oct 40c*  
 Harristahl NE-6 \_\_\_\_\_ *CQ Feb 61g*  
 metering, easier \_\_\_\_\_ *CQ Feb 36c*  
 SSB Modulator \_\_\_\_\_ *CQ Jul 24c*  
 automatic tuning for \_\_\_\_\_ *El Jul 134g*  
 break-in "Tattoo" \_\_\_\_\_ *QST Aug 18c*  
 voice control \_\_\_\_\_ *QST Aug 32c*  
 c.w. perfectionist, keying  
 the radiotelegraph \_\_\_\_\_ *QST Jul 27c*
- DX-100  
 improved keying for \_\_\_\_\_ *CQ Aug 49c*  
 improved keying \_\_\_\_\_ *QST Aug 34c*
- exciters  
 SSB \_\_\_\_\_ *CQ Aug 31c*  
 2-Meter \_\_\_\_\_ *CQ Jul 75c*
- FM, automatic operation *WW Feb 81g*  
 gas tube protection \_\_\_\_\_ *El Jan 144g*  
 "Lil' Rig" 24-Watt \_\_\_\_\_ *CQ Aug 28c*  
 linear PA  
 Hallicrafters HT-31 \_\_\_\_\_ *CQ Jan 40g*  
 Medium power on 2 \_\_\_\_\_ *CQ Dec 23c*  
 Morrow MB 560 \_\_\_\_\_ *CQ Nov 52g*  
 Morrow MB 560A \_\_\_\_\_ *QST Nov 40g*  
 100W contest final \_\_\_\_\_ *CQ Nov 44c*  
 10-watt 50mc mobile \_\_\_\_\_ *QST Dec 30c*  
 2 meter-500w final \_\_\_\_\_ *CQ Nov 56c*  
 Viking adventurer \_\_\_\_\_ *CQ Dec 40c*
- Microwave party line \_\_\_\_\_ *El Nov 175g*  
 mobile  
 FM, tuning and loading *RN Mar 52g*
- power-control system  
 for \_\_\_\_\_ *QST May 32c*  
 output indicator \_\_\_\_\_ *QST Sept 22c*  
 peak clipping in \_\_\_\_\_ *WW Aug 385g*  
 power indicator \_\_\_\_\_ *QST Oct 11c*  
 push-pull 813 \_\_\_\_\_ *CQ Feb 22c*  
 speech amplifier  
 tone controls for \_\_\_\_\_ *QST Jul 36c*  
 tape \_\_\_\_\_ *CQ Aug 72g*  
 transistor, flea-power \_\_\_\_\_ *RE Oct 52c*  
 Transonde, monitors \_\_\_\_\_ *El Nov 164g*  
 transistorized \_\_\_\_\_ *PE Mar 35c*  
 low-power unit \_\_\_\_\_ *RN Oct 58c*  
 voice controlled \_\_\_\_\_ *CQ Mar 20c*  
 T-R Switch, performance \_\_\_\_\_ *QST May 23t*  
 Tremolo \_\_\_\_\_ *RN Feb 124c*  
 heater-cathode leakage \_\_\_\_\_ *TT Jan 56t*  
 Trigger circuits, transistor *RE Aug 37g*
- Troubleshooting  
 Flyback, AGC, AFC \_\_\_\_\_ *Sv Dec 26d*  
 yoke and CRT \_\_\_\_\_ *SD Aug 10g*  
 rebranding racket \_\_\_\_\_ *RN Jul 40g*  
 voltage measurements \_\_\_\_\_ *PF Oct 32g*
- Tubes  
 amplification,  
 phase inversion \_\_\_\_\_ *Tc Jun 39g*  
 Audio use, for \_\_\_\_\_ *RN Nov 64g*  
 beam switching  
 applications \_\_\_\_\_ *El Apr 122g*  
 Carcinotron, O-type \_\_\_\_\_ *IRE Mar 333t*  
 Color-TV, adjustments \_\_\_\_\_ *Sv Dec 10g*  
 counter, EIT \_\_\_\_\_ *RE Mar 104g*  
 design changes \_\_\_\_\_ *PF Apr 9g*  
 Elements, special tests \_\_\_\_\_ *Sv Nov 18g*  
 EL34 \_\_\_\_\_ *RN Apr 66g*  
 Foreign guide \_\_\_\_\_ *Tc Nov 38d*  
 6DTV-FM Detector \_\_\_\_\_ *PF Dec 19g*  
 envelopes, new designs \_\_\_\_\_ *RN Jul 42g*  
 gas triodes and tetrodes \_\_\_\_\_ *PE May 95g*  
 guided missile  
 high "G" testing \_\_\_\_\_ *TT Jul 42g*  
 image orthicon,  
 low light level \_\_\_\_\_ *RCA Sept 425g*  
 kinescope  
 diagnosing defects \_\_\_\_\_ *Tc May 32g*  
 noncircular spots \_\_\_\_\_ *RCA June 275t*  
 load lines \_\_\_\_\_ *RE Apr 40t, PE Jan 91t*  
 magnetron  
 coupled-cavity-tuned \_\_\_\_\_ *El Mar 182g*  
 microwave, term standards  
 \_\_\_\_\_ *IRE Mar 346d*
- oxide cathode  
 electrolytic transport  
 phenomena \_\_\_\_\_ *RCA June 190t*  
 electron donor centers



- pressed dispenser cathode *IRE Mar 351t*  
 6BY4 *RN Mar 46g*  
 storage *TT Mar 82t*  
 Storage, viewing *RCA Dec 503g*  
 testing procedures  
     horizontal amplifier use *Sv Aug 22g*  
 Testing procedures for vertical output  
     blocking oscillator *Sv Dec 14g*  
 traveling-wave *El Apr 144t*  
     design *IRE May 649t*  
     low-noise guns *RCA Sept 410t*  
     transverse field *IRE Feb 82t*  
     phase angle distortion *RCA Mar 86t*  
     transverse-current,  
         experimental *IRE Jul 888g*  
         theory of *IRE Jul 879t*  
 TV stock guide *PF Dec 50d*  
 Ultra-linear, further data *WW Jan 24t*  
 wired-in *WW Sept 455g*  
**Tube testers**  
     analysis *Sv Feb 20g*  
     Dyna-quick *SD Jan 28g*  
     Jackson 49 *SD Mar 22g*  
     use of *RN Jul 138g*  
**Tuned circuits**  
     resistance-tuned *RN Feb 62t*  
**Tuners**  
     Admiral 17X, 18Y, 19Y, 20Y *SD Feb s*  
     AM, transistor conversion *AE Jul 15c*  
     AM-FM  
     AM Crystal *Act Dec 16c*  
         servicing *SD Mar 24g*  
     FM  
         new models *SD Jan 10g, Feb 18g*  
         how to select *PE Oct 58g*  
 Tuning indicators *RN Jan 88g*  
**U**  
 UHF, ionospheric effects *IRE Aug 992t*  
 Ultrasonic machining *El Jan 132g*  
     protection system *RN Jul 52c*  
 Univac  
     Election use of *PE Nov 39g*  
 Underwriters' Laboratories, Inc.  
     functions of *RN Oct 60g*  
**V**  
 Vacuum tubes  
     vs transistors *IRE Apr 479t*  
**V.F.O.**  
     Clapp circuit *QST June 40c*  
     receiver-tracking, 7 mc *QST May 34c*  
     stability in *CQ Jul 65g*  
     7 Mc *QST Oct 32c*  
**V.H.F.**  
     broadcasting,  
         European *WW Jul 347g*  
     ionospheric effects *IRE Aug 992t*  
     ionospheric scattering *WW Jan 36t*  
     nonoptical propagation *EC Jun 133g*  
     propagation *WW June 295g*  
     transhorizon techniques *El May 154t*  
 Vibration meter  
     transistorized *El Apr 127g*  
 Video recorder, Ampex *TT Aug 72g*  
 Vidicon  
     Camera, transistorized *RCA Dec 469g*  
     Miniature *RCA Dec 460g*  
 Visual perception  
     effects of angle *MP May 273t*  
 Voltage dividers  
     B+ circuits *PF May 31*  
 Voltage regulation *RE Apr 88g*  
 Voltage regulators, stabilizing  
     *TT Jan 67t*  
 Voltage doubler, symmetrical  
     analyzing current flow *RE Sept 88t*  
 Voltage tolerance measurement  
     *El Feb 150g*  
 Voltmeter, vacuum-tube  
     a.c. *RN Feb 120c*  
     digital *El Jan 148g, RE Apr 44g*  
     servicing *RN Mar 66g*  
         limitations when  
             servicing *RE Sept 46g*  
             slide-back type *WW Sept 441c*  
 Volume expander *RN Nov 54c*  
**W**  
 Watchmaster, servicing *RE May 90g*  
 Wattmeter  
     visual comparison *CQ Jan 42c*  
 Waveform, TV  
     British changes *WW Jan 26g*  
 Waveguide  
     ferrite-loaded, anomalous  
         propagation *IRE Oct 1410t*  
     field displacement isolator *IRE Apr 554t*  
     impedance plotter *El Mar 184g*  
     rotary joint *IRE Apr 548t*  
 Weather, radar, isoecho *El Feb 147g*  
 Weather tracking *PE Sept 38g*  
 Welding control  
     current integrator *El Aug 157g*  
 WESCON 1956 *TT Aug 76g*  
 Wien bridge design *TT June 93d*  
 Wireless microphones  
     transistorized *PE Apr 55c*  
 "Wow"  
     measurement of *WW Feb 97g*  
 Wow and flutter  
     tape recorders and phono  
         players *Sv Apr 44g*



Other publications by RADIO MAGAZINES, INC. —

# Authoritative and Enlightening...

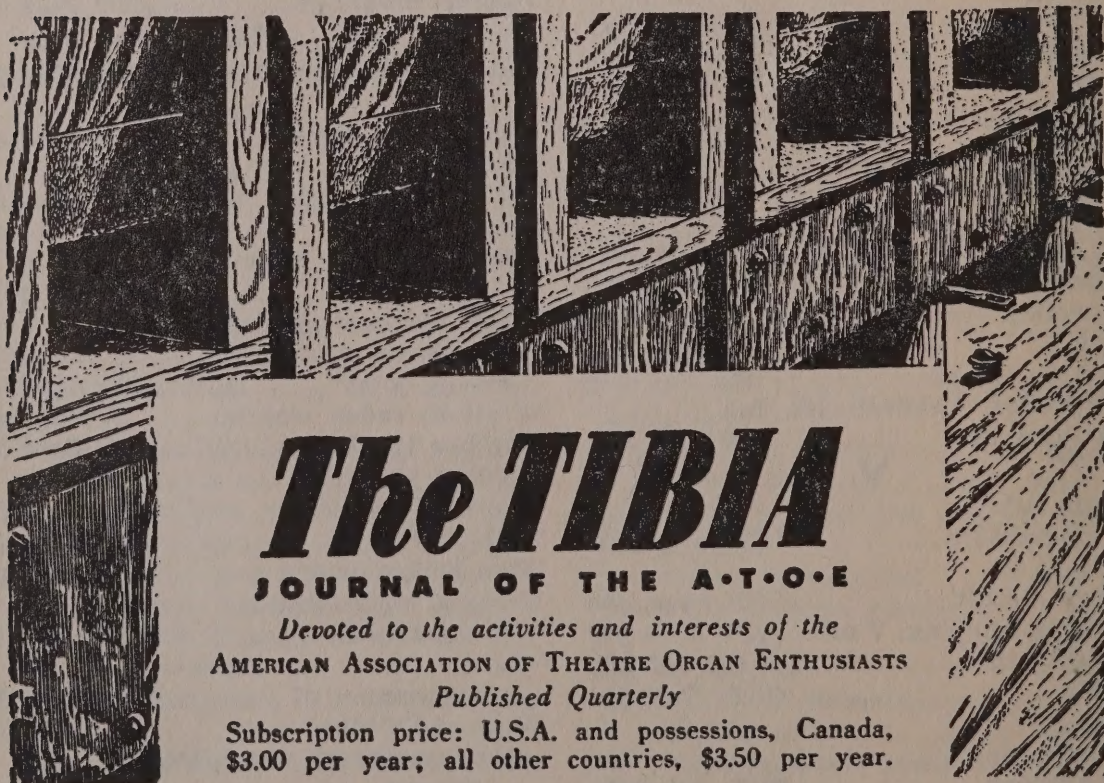
## **AUDIO** *Acknowledged the Leading Publication in the Field of Sound Reproduction*

If you are novice, hobbyist, experimenter, or engineer . . . if you are a lover of music . . . and in pursuit of sound, undistorted . . . AUDIO will be your faithful, reliable companion all the way. "What to Do" and "How to Do" will guide your every move through this thrilling experience we call Audio.

Each new issue brings New Ideas, New Slants, and Latest Developments . . . month in and month out . . . twelve times a year.

**BE SURE** to get your copies **REGULARLY**

Subscription price. U.S.A., Possessions, Canada and Mexico:  
1 year \$4.00; 2 years \$7.00, all other countries \$5.00 per year



## ***The TIBIA***

**JOURNAL OF THE A.T.O.E**

*Devoted to the activities and interests of the  
AMERICAN ASSOCIATION OF THEATRE ORGAN ENTHUSIASTS  
Published Quarterly*

Subscription price: U.S.A. and possessions, Canada,  
\$3.00 per year; all other countries, \$3.50 per year.



**RADIOFILE**

255 West 84th Street, New York 24, N. Y.



## ***Whenever You Need A Book . . .***

. . . save money by ordering it from RADIOFILE, at RADIOFILE'S regular 10% discount. Save postage, too — and save time and nuisance with one source for ALL books!

For any hard-cover book in print — technical, text, art, fiction, nonfiction, any book at all — send only 90% of regular list price, with title, author, and publisher. RADIOFILE ships promptly by mail; no charge for postage or handling. There is no quantity requirement, no "club" to join.

Join the thousands of individuals and large companies we have served for years as money-saving book headquarters.



**RADIOFILE**

255 West 84th Street, New York 24, N. Y.



LECTRODEX

FORMERLY

RADIOFILE

P. O. Box 629  
Mineola, N. Y.



R.E. Winenow  
2673 Thornhill Drive  
San Carlos, California